

25. New York, 8, 9, 10, 12, 13, 18, 19, 20. North Carolina, 6, 7, 8, 17, 18, 19, 20. Ohio, 5, 6, 8, 9, 22, 23. Oklahoma, 20, 21, 23, 24. Oregon, 1, 11, 12, 14, 15. Pennsylvania, 7, 9, 10, 13, 16, 25. South Carolina, 1, 2, 6, 9, 17, 18, 19, 20, 22, 24, 25. South Dakota, 6, 8, 10, 17, 18, 19, 20, 23, 28, 29, 30. Tennessee, 1, 9, 11, 17, 20, 22. Texas, 6, 7, 19, 23, 24, 25. Utah, 9, 15. Vermont, 19. Virginia, 7, 12, 17, 20. Washington, 15, 16. West Virginia, 9, 11, 13, 20. Wisconsin, 18, 22. Wyoming, 3, 5, 13, 14, 15, 16, 18, 19, 20, 23, 28, 29.

SLEET.

The following are the dates on which sleet fell in the respective States:

Colorado, 5, 10, 20.

HUMIDITY.

The relative humidity was normal in the South Atlantic and east Gulf States, and the upper Mississippi Valley; slightly below normal in the Florida Peninsula, west Gulf States, upper Lake region, North Dakota, and the middle Pacific district; elsewhere it was above normal, with marked departures in the middle and southern slope, southern Plateau and north Pacific regions.

The averages by districts appear in the subjoined table:

Average relative humidity and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	83	+ 4	Missouri Valley	69	+ 2
Middle Atlantic	79	+ 6	Northern Slope	64	+ 6
South Atlantic	78	0	Middle Slope	69	+ 9
Florida Peninsula	78	- 2	Southern Slope	73	+ 13
East Gulf	75	0	Southern Plateau	37	+ 10
West Gulf	74	- 2	Middle Plateau	41	+ 3
Ohio Valley and Tennessee	74	+ 4	Northern Plateau	53	+ 1
Lower Lake	77	+ 6	North Pacific	77	+ 8
Upper Lake	71	- 2	Middle Pacific	62	- 1
North Dakota	64	- 4	South Pacific	68	+ 2
Upper Mississippi Valley	70	0			

ATMOSPHERIC ELECTRICITY.

Numerical statistics relative to auroras and thunderstorms are given in Table IV, which shows the number of stations from which meteorological reports were received, and the number of such stations reporting thunderstorms (T) and auroras (A) in each State and on each day of the month, respectively.

Thunderstorms.—Reports of 6045 thunderstorms were received during the current month as against 6406 in 1902 and 5690 during the preceding month.

The dates on which the number of reports of thunderstorms for the whole country was most numerous were: 8th, 359; 9th, 316; 19th, 295; 20th, 307.

Reports were most numerous from: Missouri, 329; Ohio, 283; North Carolina, 254; Florida, 250.

Auroras.—The evenings on which bright moonlight must have interfered with observations of faint auroras are assumed to be the four preceding and following the date of full moon, viz: 5th to 13th.

In Canada. Thunderstorms were reported at St. John, N. B., 8, 12; St. Johns, N. F., 28; Halifax, 25; Grand Manan, 12, 25, 26; Yarmouth, 10, 25; Charlottetown, 27; Father Point, 10;

Quebec, 10, 11, 20; Montreal, 18, 25, 26; Kingston, 13, 24; Toronto, 9, 24; White River, 9; Port Stanley, 7, 17, 19; Parry Sound, 21; Port Arthur, 21; Winnipeg, 8, 29; Qu'Appelle, 3, 4, 18, 23; Medicine Hat, 18; Swift Current, 3, 14, 18, 30; Banff, 13, 17, 29; Battleford, 30; Barkerville, 10, 12, 25; New Westminster, 17, 20; Hamilton, Bermuda, 23.

An aurora was reported from White River on the 17th.

SUNSHINE AND CLOUDINESS.

The cloudiness was above the average, except in the upper Lake region and northern slope, where it was normal, and in the Florida Peninsula, North Dakota, upper Mississippi Valley, and the northern Plateau region, where it was slightly below the normal.

The distribution of sunshine is graphically shown on Chart VII, and the numerical values of average daylight cloudiness, both for individual stations and by geographical districts, appear in Table I.

The averages for the various districts, with departures from the normal, are shown in the following table:

Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	7.0	+ 1.9	Missouri Valley	4.9	+ 0.1
Middle Atlantic	6.6	+ 1.6	Northern Slope	4.8	0.0
South Atlantic	5.4	+ 0.5	Middle Slope	5.7	+ 2.0
Florida Peninsula	5.4	- 0.1	Southern Slope	6.2	+ 1.8
East Gulf	5.4	+ 0.6	Southern Plateau	3.0	+ 1.1
West Gulf	4.7	+ 0.1	Middle Plateau	3.5	+ 0.5
Ohio Valley and Tennessee	5.6	+ 0.6	Northern Plateau	4.7	+ 0.4
Lower Lake	5.8	+ 0.9	North Pacific	6.9	+ 0.8
Upper Lake	5.12	0.0	Middle Pacific	3.3	+ 0.1
North Dakota	4.12	- 1.0	South Pacific	3.8	+ 0.5
Upper Mississippi Valley	4.8	- 0.2			

WIND.

The maximum wind velocity at each Weather Bureau station for a period of five minutes is given in Table I, which also gives the altitude of Weather Bureau anemometers above ground.

Following are the velocities of 50 miles and over per hour registered during the month:

Maximum wind velocities.

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Amarillo, Tex	19	50	nw.	Mount Tamalpais, Cal	29	50	nw.
Atlanta, Ga	20	56	n.	North Head, Wash	26	54	se.
Block Island, R. I.	12	72	e.	Do	27	52	s.
El Paso, Tex	1	59	ne.	Point Reyes Light, Cal	1	60	nw.
Fort Worth, Tex	24	56	nw.	Do	3	53	nw.
Mount Tamalpais, Cal	1	69	nw.	Do	4	50	nw.
Do	2	59	nw.	Do	13	61	nw.
Do	3	59	nw.	Do	14	50	nw.
Do	4	55	nw.	Do	22	57	nw.
Do	7	52	nw.	Do	23	56	nw.
Do	8	56	nw.	Do	24	70	nw.
Do	9	55	nw.	Do	25	66	nw.
Do	18	50	nw.	Do	26	55	nw.
Do	19	60	nw.	Do	28	51	nw.
Do	20	68	nw.	Do	29	65	nw.
Do	22	56	nw.	Do	30	75	nw.
Do	24	54	nw.	Sioux City, Iowa	8	66	nw.
Do	25	62	nw.	Tatooosh Island, Wash	7	56	e.
Do	26	58	nw.	Taylor, Tex	22	50	nw.
Do	27	51	nw.	Valentine, Nebr	23	50	nw.
Do	28	50	nw.				

DESCRIPTION OF TABLES AND CHARTS.

By Mr. W. B. STOCKMAN, Forecast Official, in charge of Division of Meteorological Records.

Table I gives, for about 137 Weather Bureau stations making two observations daily and for about 31 others making only one observation, the data ordinarily needed for climato-

logical studies, viz, the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the depar-

tures from normals in the case of pressure, temperature, and precipitation, the total depth of snowfall, and the mean wet-bulb temperatures. The altitudes of the instruments above ground are also given.

Table II gives, for about 2,800 stations occupied by voluntary and other cooperating observers, the highest maximum and the lowest minimum temperatures, the mean temperature deduced from the average of all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station, the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (....).

Table III gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in any geographical division the average resultant direction for that division can be obtained.

Table IV gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table V gives a record of rains whose intensity at some period of the storm's continuance equaled or exceeded the following rates:

Duration, minutes.....	5	10	15	20	25	30	35	40	45	50	60	80	100	120
Rates per hour (ins.).....	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.86	0.84	0.75	0.60	0.54	0.50

In the northern part of the United States, especially in the colder months of the year, rains of the intensities shown in the above table seldom occur. In all cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest rainfall of any single storm has been given, also the greatest hourly fall during that storm.

Table VI gives, for about 30 stations furnished by the Canadian Meteorological Service, Prof. R. F. Stupart, director, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

Table VII gives the heights of rivers referred to zeros of gages; it is prepared by the Forecast Division.

NOTES EXPLANATORY OF THE CHARTS.

Chart I, tracks of centers of high areas, and Chart II, tracks of centers of low areas, are prepared by the Forecast Division. The roman numerals show number and chronological order of highs (Chart I) and lows (Chart II). The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., seventy-fifth meridian time. Within each circle is also given (Chart I) the highest barometric reading and (Chart II) the lowest barometric reading at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

Chart III.—Total precipitation. The scale of shades showing the depth of rainfall is given on the chart itself. For isolated stations the rainfall is given in inches and tenths, when appreciable; otherwise, a "trace" is indicated by a capital T, and no rain at all by 0.0.

Chart IV.—Sea-level pressure and resultant surface winds. The pressures have been reduced to sea level and standard gravity by the method fully described by Prof. Frank H.

Bigelow on pages 13–16 of the Review for January, 1902. The pressures have also been further reduced to the mean of the twenty-four hours by the application of a suitable correction, to the mean of the 8 a. m. and 8 p. m. readings, at stations taking two observations daily, and to the 8 a. m. or 8 p. m. observation, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in Table 27, Volume II, Annual Report of the Chief of Weather Bureau, 1900–1901, pp. 140–164.

The isotherms on the sea-level plane have been constructed by means of the data summarized in chapter 8 of Professor Bigelow's Report on the Barometry of the United States and Canada, which can be found in the Annual Report of the Chief of the Weather Bureau for 1900–1901, Volume II. The correction $t_0 - t$, or temperature on the sea-level plane minus the station temperature, by Table 48 of the Barometry Report, is added to the observed surface temperature to obtain the adopted sea-level temperature.

The wind directions are the computed resultants of observations at 8 a. m. and 8 p. m. daily. The resultant duration is shown by figures attached to each arrow.

Chart V.—Hydrographs for seven principal rivers of the United States, prepared by the Forecast Division.

Chart VI.—Surface temperatures; maximum, minimum, and mean of these. Lines of equal monthly mean temperature in red; lines of equal maximum temperature in black; and lines of equal minimum temperature (dotted) also in black.

Chart VII.—Percentage of sunshine. The average cloudiness at each Weather Bureau station is determined by numerous personal observations during the day. The difference between the observed cloudiness and 100, it is assumed, represents the percentage of sunshine, and the values thus obtained have been used in preparing Chart VII.

Chart VIII. Isobars and isotherms at 10,000 feet. The mean monthly station pressure for each station has been reduced to the 10,000-foot plane by entering Table 53, "Reduction of pressure to the sea level, the 3500 and 10,000-foot planes" pages 789–988, Barometry Report, with the temperature argument t corresponding to θ_2 and correcting the station pressure by the reduction $B_2 - B$ after applying the plateau correction, $C \cdot \theta \cdot H$, and the corrections for e and J_A , the argument t being the mean monthly air temperature. This reduction is fully described in Professor Bigelow's Report on the Barometry of the United States and Canada, pages 772 to 786 of the Annual Report of the Chief of Weather Bureau for 1900–1901, Volume II. The reduction for obtaining B_2 may also be found by using gradients from the station pressure to the height of 10,000 feet as set forth on pages 18 and 19, of the MONTHLY WEATHER REVIEW for January 1902.

The isotherms on the 10,000-foot plane have been computed by using the gradients for temperature for each month and station as shown by the Summary Table of Normals, Table 48, Chapter VIII, of Professor Bigelow's Report on the Barometry of the United States and Canada.

Chart IX.—Isobars and isotherms at 3500 feet. The pressure and temperature data entered on this chart are found by the method described for the same data on the 10,000 foot plane.

Chart X.—The total snowfall. This is based on the reports from regular and voluntary observers, and shows the depth of the snowfall during the month in inches. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given.

Chart XI.—Depth of snow on ground at the end of the month.

When there is no snow the last two charts may be replaced by others.

MONTHLY WEATHER REVIEW.

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TABLE I.—Climatological data for Weather Bureau stations, June, 1903.

Stations.	Elevation of instruments.		Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.			Wind.			Clear days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.																											
	Barometer above sea level, feet.		Thermometers above ground.			Anemometer above ground.			Actual, reduced to mean of 24 hours.		Sea level, reduced to mean of 24 hrs.		Departure from normal.		Mean max. + mean min. + 2.		Departure from normal.		Mean maximum.		Date.		Mean minimum.		Greatest daily range.		Mean wet thermometer.		Mean temperature of the dew point.		Mean relative humidity, per cent.		Total.		Departure from normal.		Days with .01, or more.		Total movement, miles.		Prevailing direction.		Miles per hour.		Maximum velocity.			
New England.																																																
Eastport.	76	69	82	29.92	30.00	+ .07	57.8	- 5.4	53.1	- 5.0	56.7	- 6.6	57.9	- 7.9	53	- 63	46	- 23	51	- 26	52	- 49	80	- 5.53	+ 1.2	5.16	- 1.2	7.123	ne.	42	ne.	15	6	11	13	7.0												
Portland, Me.	103	81	117	29.86	29.99	+ .04	58.8	- 6.5	63	- 6.0	55.8	- 6.1	57.5	- 7.1	63	- 69	31	- 1	46	- 43	53	- 49	75	- 4.75	+ 1.7	8	10	6,365	s.	40	e.	12	6	18	10	7.0												
Concord.	298	70	29	26	29.97	+ .01	58.8	- 6.5	83	- 6.3	58	- 6.5	85	- 6.5	66	- 69	48	- 16	53	- 16	50	- 40	7.5	- 4.75	+ 1.7	3,394	n.	32	e.	10	7	16	7.0															
Northfield.	876	16	60	29.03	29.97	+ .01	57.5	- 6.1	83	- 6.0	55.5	- 6.1	58.5	- 7.1	62	- 62	47	- 5	53	- 18	55	- 54	91	- 1.10	+ 1.7	14	15	5,176	s.	32	e.	12	6	22	7.0													
Boston.	125	115	181	29.83	29.97	+ .01	59.8	- 6.5	85	- 6.3	66	- 6.5	64	- 7.1	71	- 62	48	- 1	53	- 18	55	- 54	91	- 1.10	+ 1.7	14	15	6,976	e.	41	e.	12	6	22	7.0													
Nantucket.	12	43	85	29.95	29.96	- .02	57.6	- 3.6	71	- 27	62	- 3.6	75	- 3.6	63	- 63	46	- 1	54	- 22	56	- 54	90	- 4.82	+ 2.2	15	10	2,272	se.	48	se.	12	6	22	7.0													
Block Island.	26	11	60	29.94	29.97	.00	58.3	- 3.7	75	- 3.6	63	- 3.7	75	- 3.6	63	- 63	40	- 3	52	- 28	52	- 52	82	- 6.22	+ 3.7	15	10	7.2	e.	12	e.	12	6	17	7.0													
Narragansett.	10	38	—	—	—	—	57.8	- 6.8	77	- 27	63	- 6.8	77	- 6.8	63	- 63	44	- 1	54	- 33	56	- 54	82	- 6.22	+ 3.7	15	10	6,094	ne.	41	e.	12	7	5	18	6.8												
New Haven.	106	117	144	29.83	29.95	- .02	60.8	- 6.5	85	- 6.3	63	- 6.5	85	- 6.3	71	- 63	44	- 1	54	- 33	56	- 54	82	- 7.41	+ 4.5	15	10	5,01	s.	41	e.	12	7	5	18	6.6												
Mid. Atlantic States.							56.7	- 5.2	75	- 27	59	- 5.2	41	- 1	47	- 26	50	- 50	48	- 83	83	- 5.16	+ 1.2	5.01	- 1.4	7.123	ne.	42	ne.	15	6	11	13	7.0														
Albany.	97	102	115	29.84	29.95	- .02	63.2	- 5.8	86	- 7.1	71	- 5.8	64.2	- 4.0	79	- 69	45	- 1	55	- 33	58	- 54	78	- 6.44	+ 2.8	19	10	4,782	s.	26	se.	23	4	3	23	7.6												
Binghamton.	875	79	90	29.66	29.93	- .04	61.0	- 5.3	84	- 30	71	- 5.1	60	- 4.1	51	- 56	36	- 1	51	- 36	50	- 40	7.5	- 5.79	+ 2.2	16	10	3,394	n.	32	e.	12	6	16	6.7													
New York.	314	108	203	29.61	29.94	- .04	64.0	- 5.0	83	- 3.0	70	- 5.0	53	- 23	59	- 27	60	- 1	58	- 84	58	- 84	84	- 7.42	+ 4.3	17	12	6,924	e.	40	w.	30	3	10	20	7.6												
Harrisburg.	374	94	104	29.53	29.93	- .06	65.1	- 5.4	86	- 7.2	72	- 4.7	64	- 19	49	- 19	51	- 1	53	- 26	59	- 75	75	- 5.63	+ 1.4	17	14	4,403	e.	24	w.	14	2	9	19	7.7												
Philadelphia.	117	168	184	29.82	29.94	- .04	65.8	- 5.9	84	- 30	73	- 5.1	59	- 13	53	- 60	60	- 1	53	- 26	59	- 77	5.48	- 2.4	12	12	6,460	se.	33	n.	12	3	7	20	7.5													
Scranton.	805	111	119	29.09	29.93	- .05	63.2	- 5.0	84	- 30	72	- 5.0	67	- 13	50	- 53	36	- 1	57	- 53	74	- 7.73	- 1.2	15	10	3,932	ne.	20	s.	7	5	6	19	7.4														
Atlantic City.	52	39	48	29.88	29.93	- .05	63.2	- 3.6	83	- 23	68	- 5.1	52	- 15	59	- 60	59	- 1	57	- 59	80	- 8.38	+ 1.2	14	12	5,630	s.	24	s.	15	5	13	12	6.0														
Cape May.	17	47	51	29.94	29.95	- .03	64.2	- 4.0	79	- 4	69	- 5.3	67.2	- 2.5	63	- 79	53	- 1	60	- 19	60	- 60	60	- 4.48	+ 1.3	16	12	5,208	s.	28	s.	7	4	15	11	6.2												
Baltimore.	123	69	117	29.79	29.92	- .07	67.2	- 6.3	85	- 30	74	- 5.0	57	- 13	60	- 62	59	- 1	60	- 14	61	- 67	60	- 5.01	+ 1.0	14	12	5,115	se.	26	n.	11	3	11	16	7.0												
Washington.	112	59	76	29.81	29.93	- .07	67.0	- 6.2	87	- 30	75	- 5.0	68.6	- 4.5	85	- 29	71	- 1	64	- 22	62	- 60	81	- 3.60	+ 1.0	14	12	4,133	s.	25	n.	15	5	10	15	6.5												
Cape Henry.	18	11	58	29.89	29.91	- .09	68.8	- 5.4	84	- 30	78	- 5.0	68.8	- 3.8	80	- 78	59	- 1	62	- 26	62	- 62	74	- 4.44	+ 0.5	14	12	9,179	ne.	36	n.	15	6	15	8.8													
Lynchburg.	681	83	85	29.19	29.92	- .09	68.8	- 5.4	84	- 30	78	- 5.0	69	- 13	63	- 62	60	- 1	62	- 26	62	- 62	73	- 5.37	+ 2.4	12	12	14	9	15	8.8																	
Norfolk.	91	102	111	29.84	29.93	- .07	70.3	- 4.8	91	- 30	78	- 5.1	63	- 13	63	- 64	62	- 1	62	- 26	62	- 62	79	- 3.40	+ 0.8	12	12	6,218	s.	26	w.	20	8	14	8.3													
Richmond.	144	92	90	29.78	29.98	- .08	70.2	- 4.0	90	- 30	79	- 5.2	63	- 12	62	- 62	62	- 1	62	- 26	62	- 62	80	- 5.73	+ 2.0	12	12	3,648	s.	20	w.	14	6	9	15	6.5												
Wytheville.	2,293	40	47	27.60	29.97	- .04	63.5	- 3.0	85	- 30	73	- 4.5	78	- 3.0	54	- 58	56	- 1	57	- 52	67	- 5.67	- 1.2	17	10	3,352	w.	28	w.	14	11	13	6	4.7														
S. Atlantic States.							73.4	- 3.2	85	- 23	70	- 3.2	74.0	- 2.2	80	- 70	50	- 1	64	- 20	65	- 60	78	- 5.71	+ 0.8	8	8	5,192	s.	21	s.	11	3	20	7	5.4												
Asheville.	2,255	53	75	27.65	29.94	- .07	64.6	- 5.0	85	- 19	74	- 5.1	71	- 19	55	- 50	59	- 1	55	- 50	59	- 50	80	- 5.55	+ 1.5	17	10	4,586	n.	34	e.	22	12	12	5.4													
Charlotte.	773	68	76	21.11	29.93	- .08	71.8	- 4.0	80	- 30	80	- 4.0	75	- 12	63	- 60	75	- 1	63	- 25	61	- 61	85	- 5.35	+ 0.8	13	12	4,267	s.	22	n.	21	9	9	5.0													
Hatteras.	11	12	47	29.93	29.94	- .07	73.4	- 0.6	85	- 21	78	- 1.2	68	- 1.2	68	- 67	64	- 1	68	- 23	64	- 64	83	- 3.35	+ 1.2	13	11	9,639	sw.	37	sw.	21	9	10	11	5.5												
Kittyhawk.	8	12	30	—	—	—	70.2	- 4.0	87	- 30	76	- 5.0	72.0	- 3.7	81	- 80	50	- 1	63	- 27	65	- 62	74	- 4.61	+ 1.7	14	14	5,191	sw.	20	s.	12	5	13	5.3													
Raleigh.	876	103	101	29.53	29.91	- .10	72.0	- 3.7	92	- 30	81	- 5.0	74.2	- 2.5	89	- 81	55	- 1	63	- 27	68	- 65	80	- 5.03	+ 2.9	14	14	5,750	s.	25	w.	18	6	12	6.4													
Wilmington.	78	82	90	29.83	29.91	- .10	74.2	- 2.5	89	- 21	82	- 5.0	75.8	- 2.3	91	- 81	55	- 1	63	- 27	68	- 65	80	- 5.03	+ 2.9	14	14	5,750	s.	25	w.	18	6	12	6.4													
Charleston.	45	14	94	29.90	29.94	- .07	76.8	- 2.3	91	- 24	83	- 2.0	70.0	- 2.3	80	- 70	68	- 1	64	- 22	68	- 68	77	- 4.64	+ 1.0	17	17	5,730	s.	3																		

TABLE I.—Climatological data for Weather Bureau stations, June, 1903—Continued.

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.								Precipitation, in inches.		Wind.													
	Barometer above sea level, feet.		Thermometers above ground.		Sea level, reduced to mean of 24 hrs.		Departure from normal.		Mean max. + mean min. + 2.		Mean maximum.		Mean minimum.		Greatest daily range.		Mean wet thermometer.		Mean temperature of the dew-point.		Mean relative humidity, per cent.		Total movement, miles.		Prevailing direction.		Maximum velocity.	
	Actual, reduced to mean of 24 hours.	Anemometer above ground.	Sea level, reduced to mean of 24 hrs.	Thermometers above ground.	Date.	Departure from normal.	Maximum.	Date.	Mean max. + mean min. + 2.	Mean maximum.	Date.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days more, or less.	Total movement, miles.	Miles per hour.	Direction.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.
<i>North Dakota.</i>																												
Moorehead.....	935	54	60	29.01	30.01	+ .11	63.0	- 1.0	85	14	76	36	11	50	34	56	49	64	1.43	- 2.4	7	5,886	se.	30	ne.	17	3.2	
Bismarck.....	1,674	16	29	28.26	30.02	+ .15	63.0	- 0.0	82	17	76	38	10	50	33	56	50	64	1.44	- 2.1	10	6,414	s.	33	n.	19	3.4	
Williston.....	1,875	14	44	28.00	29.96	+ .10	62.2	- 1.1	85	17	74	30	10	50	39	54	49	67	2.06	- 1.4	10	6,726	se.	40	ne.	14	5.2	
<i>Upper Miss. Valley.</i>																												
Minneapolis.....	887	99	208	29.09	29.99	+ .07	65.4	- 1.8	85	29	74	40	11	56	26	57	51	64	1.16	- 3.2	7	4,188	nw.	30	w.	8	4.2	
St. Paul.....	837	102	122	29.09	29.99	+ .07	65.4	- 1.8	85	6	74	41	11	56	26	57	51	64	1.88	- 2.6	8	4,413	s.	37	s.	30	4.3	
La Crosse.....	714	71	87	29.30	30.01	+ .08	65.2	- 3.7	84	15	75	40	12	55	31	59	57	74	2.28	- 2.1	6	4,605	w.	21	ne.	13	5.0	
Davenport.....	606	71	79	29.31	29.95	+ .01	66.1	- 4.8	91	30	75	41	12	57	28	60	57	74	2.38	- 2.1	8	4,782	sw.	28	w.	8	4.9	
Des Moines.....	861	84	99	29.08	30.00	+ .08	65.8	- 4.3	92	30	75	43	12	57	29	59	55	71	3.06	- 2.3	12	4,522	nw.	22	nw.	8	3.9	
Dubuque.....	698	100	117	29.24	29.99	+ .06	64.6	- 4.9	87	30	74	40	12	55	30	58	53	68	2.16	- 3.0	11	3,735	n.	14	11	10	5.5	
Keokuk.....	614	63	78	29.30	29.94	+ .00	65.0	- 5.5	91	30	76	44	12	58	26	60	57	75	1.40	- 3.1	8	4,140	nw.	20	w.	8	4.0	
Cairo.....	356	87	93	29.58	29.95	- .02	69.8	- 5.6	88	30	78	50	12	62	23	64	61	76	2.37	- 2.1	8	4,782	sw.	28	s.	21	5.4	
Springfield, Ill.	644	82	93	29.28	29.36	+ .01	67.0	- 5.2	89	30	77	43	12	57	26	60	55	71	2.13	- 2.3	11	5,515	nw.	29	e.	21	5.0	
Hannibal.....	534	75	110	29.39	29.96	+ .01	67.4	- 5.0	90	30	76	43	12	58	28	59	58	74	2.59	- 0.8	9	4,951	sw.	27	w.	12	4.5	
St. Louis.....	567	111	210	29.35	29.95	.00	70.4	- 4.8	90	30	78	50	12	63	22	61	55	63	5.71	+ 0.6	8	5,878	nw.	28	n.	8	4.6	
<i>Missouri Valley.</i>																												
Columbia, Mo.	784	11	84	29.14	29.96	+ .01	66.4	- 7.9	90	30	77	42	13	56	32	51	56	69	2.16	- 2.7	13	3,639	n.	27	nw.	18	6.2	
Kansas City.....	963	78	95	28.98	30.00	+ .08	69.0	- 4.4	92	30	77	48	1	61	55	61	56	75	2.35	- 2.6	10	4,013	s.	25	s.	30	4.8	
Springfield, Mo.	1,324	98	104	28.39	29.98	+ .03	67.2	- 5.2	87	30	75	47	13	59	23	61	57	75	3.99	- 0.5	9	4,845	n.	25	c.	22	4.3	
Topeka.....	81	89	89	28.39	29.98	+ .03	65.0	- 5.0	94	30	78	46	1	58	29	41	49	71	4.91	+ 0.1	10	5,912	n.	30	10	14	5.0	
Lincoln.....	1,189	75	84	28.72	29.96	+ .06	66.4	- 4.7	95	30	76	44	11	57	29	59	55	71	2.60	- 1.6	11	5,916	s.	38	nw.	8	10	
Omaha.....	1,105	115	121	28.82	29.98	+ .07	67.6	- 3.9	95	30	76	48	1	59	24	61	56	72	1.31	- 4.4	11	4,950	n.	36	n.	8	14	
Valentine.....	2,598	47	54	27.28	29.96	+ .10	63.8	- 3.4	92	28	75	37	10	52	34	56	50	64	1.43	- 2.8	11	7,411	s.	50	nw.	23	12	
Sioux City.....	1,135	96	164	28.80	30.00	+ .10	65.9	- 4.4	93	30	76	40	11	56	30	56	50	64	5.65	+ 1.8	13	6,701	ne.	66	nw.	8	15	
Pierre.....	1,572	43	50	28.34	29.95	+ .11	68.0	- 0.2	94	17	80	43	10	56	34	58	50	60	2.14	- 1.3	8	5,636	se.	32	n.	29	12	
Huron.....	1,306	56	67	28.62	30.00	+ .12	63.9	- 2.8	87	17	77	35	11	61	41	57	52	68	2.54	- 1.0	7	6,748	se.	46	nw.	18	9	
Yankton.....	1,233	42	49	28.69	30.00	+ .11	66.8	- 1.8	93	29	78	38	11	56	34	59	54	73	3.35	- 0.9	12	4,002	e.	37	n.	19	14	
<i>Northern Slope.</i>																												
Havre.....	2,505	46	53	27.37	29.98	+ .13	64.0	- 2.7	90	17	77	38	9	51	43	55	48	64	1.51	- 1.5	8	6,543	e.	48	sw.	17	3.4	
Miles City.....	2,371	42	50	27.46	29.92	+ .07	68.4	- 1.4	90	17	81	40	10	56	36	62	59	75	0.94	- 2.1	8	4,681	se.	34	nw.	30	18	
Helena.....	4,110	88	94	25.84	29.97	+ .09	63.1	- 3.7	84	17	74	41	10	52	36	50	40	49	1.09	- 1.3	10	3,844	sw.	22	14	8	7.4	
Kalispell.....	2,965	45	51	26.93	29.95	+ .06	61.4	- 1.4	88	11	74	41	10	49	45	51	44	60	1.61	- 0.9	9	4,060	w.	24	w.	8	3.4	
Rapid City.....	3,234	46	50	26.65	29.96	+ .11	62.5	- 1.7	92	28	73	36	10	52	35	55	50	67	3.79	- 0.1	7	5,231	w.	34	w.	7	10	
Cheyenne.....	6,088	56	64	24.09	29.98	+ .14	56.9	- 4.0	88	28	68	30	11	46	35	49	43	67	1.42	- 0.1	10	6,072	s.	33	nw.	21	12	
Lander.....	5,372	26	36	24.70	29.79	+ .12	62.8	- 1.2	60.8	8	0.7	89	28	75	37	11	46	42	50	36	12	5,329	nw.	30	w.	20	8.5	
North Platte.....	2,821	43	52	27.12	30.01	+ .15	62.8	- 0.2	91	18	75	43	1	52	32	58	54	73	3.99	- 0.6	12	5,062	se.	49	n.	17	6	
<i>Middle Slope.</i>																												
Denver.....	5,291	79	151	24.79	29.99	+ .15	62.5	- 3.9	95	28	74	41	11	51	37	52	46	64	1.62	+ 0.2	12	4,750	ne.	29	sw.	28	12.3	
Pueblo.....	4,685	80	86	25.33	29.97	+ .14	63.9	- 4.4	98	29	75	42	1	52	36	54	48	66	3.24	+ 2.0	13	4,167	se.	28	nw.	3	11.4	
Concordia.....	1,398	42	47	28.54	29.99	+ .09	67.4	- 4.9	96	30	78	43	11	57	29	61	58	75	3.97	- 0.2	12	3,709	n.	24	s.	30	5.7	
Dodge.....	2,509	44	54	27.43	30.00	+ .13	65.8	- 6.8	97	29	77	41	11	53	32	59	55	71	1.49	- 1.8	8	6,500	s.	36	nw.	18	6.5	
Wichita.....	1,358	78	86	25.58	30.00	+ .09	68.9	- 5.0	94	29	74	46	1	59	31	57	70	70	1.26	- 3.7	9	4,684	ne.	28	s.	30	4.9	
Oklahoma.....	1,214	79	86	28.70	29.95	+ .04	70.5	- 5.3	91	19	80	48	1	61	25	62	57	66	1.15	- 1.6	4	5,937	s.	36	e.	24	11	
<i>Southern Slope.</i>																												
Abilene.....	1,738	45	54	28.17	29.95	+ .07	71.8	- 6.6	101	24	82	53	1	62	31	64	60	72	3.87	+ 0.6	15	4,587	se.	47	nw.	22	8.3	
Amarillo.....	3,676	10	49	26.27	29.95	+ .10	65.8	- 6.6	94																			

TABLE II.—Climatological record of voluntary and other cooperating observers, June, 1903.

Stations.	Temperature, (Fahrenheit.)			Precipita-tion.		Stations.	Temperature, (Fahrenheit.)			Precipita-tion.		Stations.	Temperature, (Fahrenheit.)			Precipita-tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Alabama.</i>	°	°	°	Ins.	Ins.	<i>Arizona—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>California—Cont'd.</i>	°	°	°	Ins.	Ins.
Anniston.....	89	44	70.2	2.89		Superstition.....	99	42	68.0	1.61		Crescent City L. H.....	82	39	59.7	0.64	
Ashville.....	90	44	71.1	2.88		Taylor.....	100	52	76.4	0.60		Cuyamaca.....	82	39	59.7	0.00	
Benton.....	98	54	75.5	5.25		Tombstone.....	108	57	80.4	0.22		Delta*5.....	104	53	77.5	0.02	
Bermuda.....	98	54	75.5	3.99		Tucson.....	102	45	73.0	0.00		Drytown.....	106	42	71.5	0.00	
Bridgeport.....				4.08		Upper San Pedro.....	100	62	81.0	0.08		Dunnigan*5.....	106	46	70.6	0.20	
Burkeville.....				5.16		Vail*6.....						Durham.....	107	45	74.7	0.00	
Calera.....				3.86		Walnutgrove.....						East Brother L. H.....				0.05	
Camphill.....	92	51	73.4	6.38		Wilcox.....	103	30	65.4	0.59		El Cajon.....	89	46	68.4	T.	
Citronelle.....	94	55	76.2	6.37		Yarnell.....						Elmdale.....	105	42	73.4	T.	
Clanton.....	91	51	72.0	5.54		<i>Arkansas.</i>						Elsinore.....	102	48	73.6	0.00	
Cordova.....	93	46	73.2	2.87		Alco.....	88	45	67.8	3.34		Escondido.....	101	38	72.0	0.00	
Daphne.....	94	58	76.8	2.07		Amity.....	90	49	69.8	2.78		Fallbrook.....	90	46	69.0	0.05	
Decatur.....	95	47	72.2	2.19		Arkadelphia.....	96	51	72.2	2.61		Folsom*1.....	108	57	76.5	0.01	
Demopolis.....				5.24		Arkansas City.....						Fordyce Dam.....				0.92	
Dothan.....	95	55	77.4	7.30		Batesville.....	93	48	70.9	2.00		Fort Ross.....	82	42	58.0	0.09	
Eufaula.....	93	54	75.3	2.66		Beetbranch.....	93	48	69.9	1.60		Foster.....				0.00	
Eutaw.....	95	51	76.3	4.35		Blanchard.....	94	49	72.0	4.04		Georgetown.....	97	40	69.2	0.03	
Evergreen.....	95	54	75.8	6.80		Brinkley.....	98	48	70.3	1.60		Gilroy (near).....	103	37	66.0	0.00	
Flointon.....	94	54	75.6	9.70		Camden a.....						Greenville.....	97	29	66.2	0.64	
Florence a.....				9.70		Camden b.....	97	52	74.2	2.52		Hanford.....	107	40	73.0	0.00	
Florence b.....	91	44	70.5	9.31		Conway.....	98	49	72.2	0.45		Healdsburg.....	111	38	70.0	T.	
Fort Deposit.....	94	52	74.6	5.50		Dallas.....	93	48	70.7	1.25		Hollister.....	103	36	65.2	0.00	
Gadsden.....	93	47	72.8	4.68		Dardanelle.....						Humboldt L. H.....				0.89	
Goodwater.....	92	48	72.2	4.90		Dardanelle.....						Idylwild.....	92	38	61.6	0.09	
Greensboro.....	92	50	73.4	5.84		De Queen.....	99	51	74.8	2.86		Imperial.....	121	66	93.6	T.	
Greenville.....				3.37		Dodd City.....	91	44	68.6	2.55		Indio*1.....	117	72	91.1	0.00	
Haleyville.....	92	48	72.1	3.30		Dutton.....	92	42	70.0	4.55		Iowa Hill #1.....	91	50	68.8	0.06	
Hamilton.....	92	45	70.9	4.76		Elon.....	94	49	71.8	2.24		Irvine.....	86	60	71.5	0.00	
Helena.....				3.25		Eureka Springs.....	90	45	67.8	4.79		Jackson.....	100	41	70.4	T.	
Highland Home.....	92	52	74.2	5.75		Fayetteville.....	89	42	65.9	3.06		Jamestown.....	100	40	70.5	0.00	
Letohatchie.....				4.94		Forrest City.....	94	50	74.8	1.91		Jolon.....				0.00	
Livingston.....	94	52	73.6	9.17		Fulton.....						Kennedy Gold Mine.....	96	32	65.9	0.00	
Lock No. 4.....	93	46	72.7	2.05		Hardy.....	91	45	68.7	2.74		Kentfield.....	101	44	64.8	T.	
Madison Station.....	98	52	72.6	8.91		Helena.....	94	49	72.3	1.93		Laguna Valley.....				0.15	
Maplegrove.....	95	43	71.6	2.78		Jonesboro.....	93	46	70.2	2.30		Lakeport (near).....	94	49	70.1	T.	
Marietta.....	97	50	74.8	5.84		Lacrosse.....	92	47	69.5	2.94		Laporte.....	82	32	58.8	0.25	
Milstead.....				4.98		Lake Village.....	95	51	72.6	2.00		Legrande.....				0.00	
Newbern.....	98	49	75.2	6.17		Lono.....	94	46	70.6	1.50		Lemoncove.....	109	46	78.7	0.10	
Notasulga.....				5.69		Lutherville.....	90	42	68.4	1.69		Lick Observatory.....	87	35	61.6	T.	
Oneonta.....	88	45	70.3	3.29		Malvern.....	96	47	71.8	3.35		Lime Point L. H.....				0.00	
Opelika.....	94	49	73.8	5.31		Marvell.....	94	49	72.0	2.26		Livermore.....	108	43	68.2	0.00	
Ozark.....	96	52	76.2	6.78		Mossville.....	84	45	64.8	4.93		Lodi.....	104	46	71.4	0.00	
Prattville.....	95	48	73.5	5.02		Mountain Home.....	92	45	70.5	1.52		Los Gatos.....	103	42	66.2	T.	
Pushmataha.....	94	50	74.2	5.23		Mount Nebo.....	87	47	68.6	0.97		Mammoth*#.....	116	62	87.8	0.00	
Riverton.....	94	42	69.6	3.58		New Gascony.....	95	45	68.6	4.00		Mare Island L. H.....				0.00	
Scottsboro.....	94	42	71.4	3.77		Newport a.....	98	50	72.5	0.74		Marysville.....	109	49	74.5	T.	
Selma.....	97	52	75.7	7.78		Newport c.....	93	48	70.4	1.01		Meadow Valley *1.....	89	37	59.9	0.47	
Talladega.....	95	48	73.3	2.88		Oregon.....	97	40	68.0	1.82		Merced.....	108	48	80.1	0.00	
Tallassee.....				6.85		Ozark.....	92	48	70.6	2.86		Mercury.....	108	42	70.3	0.00	
Thomasville.....	99	51	76.0	2.70		Paragould.....	93	46	70.6	2.28		Mills College.....				0.00	
Tuscaloosa.....	90*	48*	71.8*	5.99		Perry.....	94	48	71.2	1.00		Milo.....				0.00	
Tuskegee.....	90	49	71.6	4.87		Pinebluff.....	95	49	72.0	5.50		Milton (near).....	102	45	72.7	T.	
Union Springs.....	94	51	75.0	4.95		Pocahontas.....	95	43	69.6	3.52		Modesto*1.....	108	52	75.6	0.00	
Uniontown.....	93	52	75.5	5.10		Pond.....	89	43	66.4	1.89		Mohave.....	105	42	76.2	0.00	
Valleyhead.....	94	48	73.8	7.60		Prestcott.....	94	52	75.3	2.11		Mokelumne Hill.....				0.02	
Verbena.....				6.72		Princeton.....	94	47	72.6	2.91		Montague.....	100	37	65.8	0.32	
Wetumpka.....	94	50	75.2	5.36		Rison.....	94	43	69.9	8.01		Monterey.....	90	42	66.8	0.96	
<i>Alaska.</i>						Rosedale.....	96	51	72.9	2.22		Mount St. Helena.....				T.	
Killisnoo.....	72	38	53.6	0.75		Washington.....	98	52	70.6	2.44		Napa.....	108	42	66.6	0.00	
Sitka.....	77	36	52.8	0.90		Warren.....	99	47	73.6	3.13		Needles.....	112	73	91.5	0.00	
Skagway.....	82	33	57.6	0.66		Washington.....	98	52	70.6	1.30		Nevada City.....	98	35	65.0	0.16	
<i>Arizona.</i>						Winchester.....	92	44	68.4	1.30		Newcastle.....	105	44	73.2	0.00	
Aguia Caliente.....	114	51	85.8	0.00		Witts Springs.....	87	40	66.0	7.08		Newman.....	107	42	75.8	0.00	
Allaire Ranch.....				0.33		<i>California.</i>						Niles.....	98	46	64.3	0.00	
Arizona Canal Co's Dam.....	109	60	82.9	0.34		Angiola.....	108	43	75.7	0.00		North Bloomfield.....	98	37	67.2	0.21	
Ashfork.....	99	33	66.6			Azusa.....	96	47	70.0	0.00		North San Juan.....	98	39	69.7	0.15	
Aztec.....	114			0.00		Bagdad.....	113	70	94.0	0.00		Oakland.....	98	47	64.1	T.	
Benson.....	108	50	77.7	0.65		Bakersfield.....	109	47	77.3	0.22		Ogilby *5.....	118	75	95.6	0.00	
Bisbee.....	98	51	73.8	0.60		Ballast Point L. H.....						Ontario.....	99	47	71.0	0.00	
Buckeye.....	106	46	77.2	0.00		Barstow.....	110	43	77.2	T.		Orlando.....	102	50	71.9	T.	
Casgrande.....	117	61	76.7	0.00		Bear Valley.....						Orleans.....	109	42	71.7	0.57	
Cochise*1.....	108	61	76.7	0.00		Berkeley.....	101	42	62.9	0.36		Oroville (near).....	108	49	75.4	0.04	
Congress.....	105	63	82.4	T.		Bishop.....	98	45	69.0	0.20		Palermo.....	107	44	73.6	0.04	
Dudleyville.....	110	53	78.8	0.84		Boca*1.....	87	24	52.2	T.		Paso Robles.....	106	36	68.1	0.00	
Duncan.....	104	42	70.8	1.08		Bodie.....	83	14	49.9	0.31		Peachland*6.....	102	49	68.2	0.02	
Fort Defiance.....	90	34	60.2	4.67		Bowman.....	88	40	63.2	0.40		Piedras Blancas L. H.....				0.00	
Fort Huachuca.....	99	57	79.5	0.43		Branscomb.....	100	33	61.2	0.24		Pigeon Point L. H.....				0.00	
Gilabend.....	110	59	84.0	0.00		Caliente*1.....	102	64	86.0	0.02		Pine Crest.....	88	49	64.0	T.	
Greaterville.....	94	51	71.0	1.81		Campbell.....	102	38	63.0	0.0							

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Total depth of snow.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Total depth of snow.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.		
	Rain and melted snow.	Total depth of snow.	Rain and melted snow.	Total depth of snow.	Rain and melted snow.	Total depth of snow.	Rain and melted snow.	Total depth of snow.	Rain and melted snow.	Total depth of snow.	Rain and melted snow.	Total depth of snow.	Rain and melted snow.	Total depth of snow.	Rain and melted snow.	Total depth of snow.	
California—Cont'd.	°	°	°	Ins.	Ins.	Colorado—Cont'd.	°	°	°	Ins.	Ins.	Florida—Cont'd.	°	°	°	Ins.	Ins.
Riverton.....	104	45	71.4	Ins.	T.	Moraine.....	81	29	51.4	3.25	Sumner.....	91	60	77.0	3.59		
Riverside.....	96	46	68.8	0.00		Pagoda.....	30	0	0.68		Switzerland.....	92	61	77.8	4.51		
Roe Island L. H.....	.....	.....	0.00			Parachute.....	99	41	66.6	1.20	Tallahassee.....	89	59	76.1	10.01	
Rohnerville.....	.....	.....	0.56			Platte Canon.....	.....	.....	2.77		Tarpon Springs.....	93	64	78.7	5.45	
Rosewood.....	105	42	75.2	0.03		Rangely.....	93	39	64.5	0.50	Titusville.....	95	63	78.1	9.89		
Sacramento.....	98	48	70.6	T.		Rockyford.....	97	39	65.2	3.94	Waukeenah.....	95	57	78.2	9.25		
Salinas.....	97	49	61.3	0.00		Rogers Mesa.....	96	35	65.7	0.58	Wausau.....	98	56	78.4	8.10		
Saiton.....	120	62	94.2	0.00		Russell.....	83	28	50.9	4.81	Wewahitchka.....	94	60	77.3	4.45		
San Bernardino.....	101	40	70.6	0.00		Saguache.....	88	38	68.2	2.68	Georgia.	.....	.....	.....	.....
San Jacinto.....	100	46	71.8	T.		Salida.....	90	35	57.4	2.47	Albeville.....	.....	.....	.....	6.18	
San Jose.....	100	40	65.6	0.00		San Luis.....	88	30	55.0	1.92	Adairsville.....	90	46	72.0	4.84		
San Leandro.....	102	43	63.8	0.00		Santa Clara.....	88	29	54.8	9.25	Albany.....	96	58	77.6	2.62		
San Luis L. H.....	.....	.....	0.00			Silt.....	91	43	64.4	0.83	Alapaha.....	96	57	77.4	7.59	
San Mateo* ¹	100	58	69.5	0.00		Sugarloaf.....	80	32	52.0	3.48	Alpabretta.....	89	43	70.0	8.51		
San Miguel* ¹	102	49	74.0	0.00		Trinidad.....	90	33	60.6	5.48	Americus.....	96	53	77.4	6.15		
Santa Barbara.....	85	47	63.4	0.02		Twinlakes.....	.....	.....	1.94		Athens.....	90	48	72.6	4.12	
Santa Barbara L. H.....	.....	.....	0.00			Vilas.....	.....	.....	2.38		Bainbridge.....	94	57	77.3	3.61	
Santa Clara.....	.....	.....	0.00			Wallet.....	.....	.....	2.34		Blakely.....	92	.....	.....	7.17	
Santa Clara College.....	106	37	63.8	0.00		Waterdale.....	88	35	59.2	2.91	Bowersville.....	92	45	72.2	3.63		
Santa Cruz.....	100	36	61.9	0.00		Westcliffe.....	82	27	52.6	7.01	Butler.....	.....	.....	.....	5.12	
Santa Cruz L. H.....	.....	.....	0.00			Whitepine.....	76	28	47.0	3.08	Camak.....	93	47	74.5	4.02	
Santa Maria.....	91	43	63.7	0.00		Wray.....	95	37	64.0	1.55	Carlton.....	.....	.....	.....	7.99	
Santa Monica.....	75	48	61.9	0.00		Yuma.....	.....	.....	2.10		Clayton.....	87	45	67.4	11.14	
Santa Paula.....	87	50	70.0	0.00		Connecticut.	.....	.....			Columbus.....	101	54	76.8	5.03	
Santa Rosa.....	107	37	65.8	0.03		Bridgeport.....	88	44	62.1	8.48	Coney.....	98	54	77.6	5.46		
Shasta.....	106	45	77.4	T.		Canton.....	82	35	58.1	11.69	Covington.....	91	47	72.6	4.32		
Sierra Madre.....	89	50	67.2	0.19		Colchester.....	82	40	59.2	8.40	Dahlonga.....	86	44	68.0	10.05		
Sisson.....	99	35	65.8	0.33		Falls Village.....	.....	.....	10.01		Dawson.....	96	53	76.7	3.70	
Somona.....	.....	.....	T.			Hartford.....	84	44	60.8	11.03	Diamond.....	92	41	69.3	11.67	
S. E. Farallone L. H.....	.....	.....	0.00			Hawleyville.....	82	38	62.0	10.38	Douglas.....	98	55	78.1	4.62	
Stockton.....	103	43	70.7	0.00		Lake Konomoc.....	.....	.....	5.65		Dublin.....	.....	.....	.....	5.51	
Storey.....	107	42	74.0	0.00		New London.....	84	47	60.3	4.44	Dudley.....	94	51	76.4	3.39		
Summerdale.....	85	38	61.2	0.29		North Grosvenor Dale.....	85	38	60.0	7.33	Eastman.....	99	53	78.2	5.56		
Susanville.....	90	33	62.7	0.32		Norwalk.....	83	40	62.5	10.54	Eatonton.....	92	54	73.4	5.76		
Tehama* ¹	105	56	81.6	T.		Southington.....	84	38	60.6	12.10	Elberton.....	92	47	78.0	7.65		
Tejon Ranch.....	100	49	75.2	T.		South Manchester.....	.....	.....	9.05		Experiment.....	92	47	72.9	2.27	
Trinidad L. H.....	.....	.....	0.67			Storrs.....	82	43	59.0	9.24	Fitzgerald.....	96	53	77.2	8.59	
Truckee* ¹	82	34	55.3	0.98		Voluntown.....	84	35	59.8	6.88	Fleming.....	96	.....	.....	8.36	
Tulare c.....	108	48	76.6	0.00		Wallingford.....	.....	.....	11.48		Forsyth.....	93	47	74.2	5.15	
Tustin.....	84	64	73.0	0.00		Waterbury.....	87	37	61.1	11.25	Fort Gaines.....	96	55	78.2	3.72		
Ukiah.....	107	39	68.2	T.		West Cornwall.....	83	41	62.0	9.74	Gainesville.....	89	45	70.4	6.03		
Upland.....	94	46	67.8	0.00		West Simsbury.....	.....	.....	9.79		Gillaville.....	91	44	71.1	6.44	
Upperlake.....	101	38	67.5	T.		Delaware.	.....	.....			Greensburg.....	93	47	73.8	5.26	
Upper Mattole* ¹	94	41	56.8	0.88		Delaware City.....	.....	.....	2.66		Greenbush.....	91	48	72.6	4.81	
Vacaville* ¹	109	54	74.4	T.		Milford.....	90	46	67.9	4.93	Griffin.....	91	46	72.4	3.96		
Ventura.....	81	48	64.2	0.00		Millsboro.....	91	46	66.5	2.97	Harrison.....	92	52	75.2	10.20		
Visalia.....	107	46	75.6	0.05		Newark.....	85	48	65.1	3.23	Hawkinsville.....	96	51	76.6	6.72		
Volcano Springs.....	120	59	88.5	0.00		Seaford.....	88	50	66.6	3.46	Hephzibah.....	94	.....	.....	3.19	
Wasco.....	107	45	77.6	0.00		District of Columbia.	.....	.....			Jesup.....	99	55	78.0	6.42	
Wheatland.....	104	48	72.7	T.		Distributing Reservoir* ⁶	84	54	67.7	4.04	Lost Mountain.....	89	45	71.5	4.72		
Williams* ¹	106	58	83.0	0.00		Receiving Reservoir* ⁶	80	54	68.2	5.11	Louisville.....	91	51	75.6	3.20		
Willits.....	102	42	67.8	0.02		West Washington.....	88	47	67.6	4.29	Lumpkin.....	97	51	76.4	3.93		
Willow.....	104	48	75.8	T.		Florida.	.....	.....			Marshallville.....	93 ^k	52 ^k	76.2	9.56	
Yerba Buena L. H.....	.....	.....	0.00			Archer.....	98	60	77.9	8.25	Mauzy b.....	94	55	76.6	8.43	
Zenia.....	98	35	60.6	0.79		Avon Park.....	95	65	80.5	5.63	Milledgeville.....	92	50	74.1	5.25		
Colorado—Cont'd.	.....	.....	.....			Bartow.....	92	68	80.4	10.38	Millen.....	96	50	77.2	5.31	
Alford.....	89	31	56.6	3.20		Bonifay.....	93	60	77.2	10.20	Monticello.....	96	48	74.8	5.57		
Antelope Springs.....	85	26	52.9	1.37		Carrabelle.....	92	59	77.6	8.27	Morgan.....	91	52	74.4	3.78		
Ashcroft.....	79	28	49.8	3.53		Clermont.....	97	66	80.8	8.15	Naylor.....	96	55	78.6	6.46		
Blaine.....	99	35	66.2	1.68		De Funik Springs.....	94	55	75.8	9.55	Newnan.....	94	55	78.6	5.09		
Boulder.....	88	39	61.2	1.87		Deland.....	95	61	79.4	.....	Oakdale.....	94	47	73.0	8.69	
Boxelder.....	.....	.....	4.04			Eustis.....	97	67	80.8	7.60	Oakfield.....	.....	.....	.....	5.20	
Breckenridge.....	78	22	47.8	2.06		Federal Point.....	95	63	78.5	6.04	Point Peter.....	94	45	72.8	11.16		
Buenavista.....	.....	.....	0.90			Fernandina.....	90	61	77.4	4.61	Poulain.....	94	53	75.8	7.98	
Canyon.....	95	37	62.1	3.66		Flamingo.....	93	66	81.0	7.98	Putnam.....	97	51	76.0	5.01		
Castlerock.....	90	34	58.6	3.25		Fort George* ¹	90	66	79.2	.....	Quitman.....	96	54	78.8	7.82	
Cedaredge.....	93	40	64.8	0.16		Fort Meade.....	99	63	80.3	4.03	Ramsey.....	87	42	69.2	5.45		
Cheeseman.....	92	32	57.8	3.14		Fort Myers.....	92	65	79.0	10.45	Resaca.....	.....	.....	.....	4.83	
Cheyenne Wells.....	94	36	62.0	2.63		Fort Pierce.....	94	64	78.2	4.93	Rome.....	93	44	72.2	5.12		
Clearview.....	78	27	47.3	6.60		Gainesville.....	93	61	78.2	5.71	St. Marys.....	95	59	74.4	7.29		
Colorado Springs.....	92	37	57.8	5.10		Grasmere.....	97	66	81.4	.....	Statesboro.....	95	52	77.0	9.31	
Collbran.....	91	41	62.7	1.93		Huntington.....	98	62	79.8	6.98	Stillmore.....	95	50	75.3	5.10		
Durango.....	92	40	61.7	2.02		Hypoluxo.....	92	65	78.0	9.51	Talbotton.....	93	49	73.2	5.80		
Fort Collins.....	92	37	59.3	2.23		Inverness.....	95	63	79.2	3.86	Tallapoosa.....	89	46	69.8	4.43		
Fort Morgan.....	92	36	62.1	2.85		Jasper.....	88	60	77.0	6.51	Thomasville.....	95	55	77.6	5.05		
Fox.....	95	30	62.0	2.71		Kissimmee.....	91	63	77.9	10.12	Toccoa.....	90	45	71.0	7.67		
Fruita.....	98	45	68.5	1.16		Le											

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Idaho—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>Illinois—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>Iowa—Cont'd.</i>	°	°	°	Ins.	Ins.
Lost River	84	34	59.6	0.77	2.64	Tiskillwa	90	40	63.9	2.82	Britt	90	36	64.9	2.58		
Meadows	90	31	60.6	2.64		Tuscola	89	38	65.5	2.60	Buckingham						
Moscow	88	40	61.0	1.80		Urbana	90	40	65.5	2.56	Burlington	91	40	66.2	1.75		
Murray	92	37	61.9	2.70		Walnut	91	39	65.8	1.96	Carroll	90	36	64.0	4.99		
Oakley	96	37	65.6	0.70		Winchester	91	44	67.4	3.04	Cedar Rapids	96	41	65.4	1.14		
Ola	92	48	68.2	0.47		Winnebago	88	36	63.2	2.75	Chariton	90	37	64.0	3.61		
Pollock	97	48	68.4	3.06		Yorkville	90	37	63.7	4.72	Charles City	86	34	62.6	1.93		
Porthill	83	39	62.6	1.45		Zion	89	37	64.0	1.55	Chester	85	32	61.8	2.23		
Priest River	90 ^c	36 ^c	62.1 ^c	3.17		<i>Indiana.</i>					Clarinda	93	41	66.3	3.29		
Riddle	88	34	60.8	0.98		Anderson	89	41	65.6	4.49	Clearlake	95	37	67.4	1.60		
Roosevelt	75 ^b	27 ^b	54.0 ^b	0.36		Angola	86	42	63.0	3.35	Clinton	94	37	65.6	1.66		
St. Maries	92	48	65.4	3.47		Auburn	87	42	62.6	4.10	College Springs	91	42	67.0	1.44		
Silver City	88	33	62.1	1.28		Bloomington	88	42	67.2	2.55	Columbus Junction	91	40	65.7	2.69		
Soldier	87	33	60.4	0.95		Bluffton ^d	83	41	62.4		Corning	89	40	64.2	3.38		
Vernon	88	32	59.6	0.77		Butlerville	86	38	66.1	9.49	Corydon	88	37	64.4	4.31		
Weston	92	37	64.2	0.58		Cambridge City	88	41	63.8	5.44	Council Bluffs	91	42	66.4	1.83		
<i>Illinois.</i>						Columbus	87	39	66.3	4.30	Cumberland						
Albion	91	40	69.4	3.05		Connerville	89	40	64.8	4.20	Danville						
Aledo	92	38	66.0	3.84		Crawfordsville	93	40	67.7	3.67	Decorah	83	39	63.2	1.57		
Alexander	88	41	66.6	5.20		Delphi	92	38	65.6	5.20	Delaware	87	38	63.2	2.12		
Antioch	88	36	62.6	2.90		Edwardsville ^{*1}	85	44	69.9	2.64	Denison	86	30	61.4	3.17		
Ashton	87	35	62.8	1.69		Elkhart	92	44	64.8	1.36	Desoto	89	42	64.9	3.82		
Astoria	90	39	65.2	3.50		Harrison	88	41	64.0	3.63	Dows	88	37	63.4	3.07		
Aurora	89	38	63.4	4.09		Holland	90	39	68.3	2.78	Earlham	88	34	62.6	4.20		
Beardstown				2.29		Huntington	90	42	65.2	3.37	Elkader	90	34	64.0	1.50		
Benton	90	43	70.0	2.47		Jeffersonville	89	44	69.8	4.15	Esterherville	86	38	62.9	3.36		
Bloomington	94	37	67.2	3.25		Kokomo	90	40	65.6	2.47	Fayette	88 ^e	39 ^e	61.8 ^e	1.91		
Bushnell	93	39	67.4	1.43		Lafayette	89	37	65.8	2.37	Forest City	85	38	63.6	1.70		
Cambridge	90	41	65.5	2.85		Laporte	94	41	63.4	2.06	Fort Dodge	87	37	61.8			
Carlinville	89	42	67.2	3.75		Logansport	93	41	66.0	3.65	Fort Madison						
Centralia	90	40	67.9	2.34		Madison a	92	41	69.2	8.82	Galva	89 ^f	34 ^f	63.6 ^f	4.07		
Charleston	90	40	67.6	5.55		Madison b					Gilman						
Chester				2.69		Marengo	90	37	69.3	2.38	Grand Meadow	87	38	63.8	1.90		
Chicago Heights				1.91		Marion	92	39	65.0	6.60	Greene	90	36	64.4	2.56		
Cleme	90	40	68.8	2.07		Markle	88	41	63.8	2.50	Greenfield	89	40	64.1	4.83		
Coatsburg	92	39	66.5	4.50		Mauzy	89	39	65.1	3.52	Grinnell	92	37	65.3	1.90		
Cobden	89	42	68.7	2.25		Moores Hill	88	40	66.2	4.16	Grundy Center	88	34	63.6	3.14		
Danville	92	39	66.2	2.65		Mount Vernon	92	41	66.8	4.02	Guthrie Center	91	38	65.6	3.62		
Decatur	90	38	66.2	2.61		Northfield	88	38	63.8	2.42	Hampton	88	39	65.6	2.49		
Dixon	93	39	64.8	1.46		Paoli	89	38	67.4	3.26	Hawntown	88	35	61.0	1.23		
Dwight	94	38	65.8	2.37		Prairie Creek	87	38	65.4	3.59	Harlan	91	37	65.0	2.83		
Effingham	87	48	67.9	4.57		Princeton	89	39	68.0	2.82	Hopeville	93	39	64.3	3.06		
Equality	90	42	68.8	2.40		Rensselaer					Humboldt	89	40	64.8	6.04		
Fandon	93	38	65.9	1.57		Richmond	87	39	65.0	3.72	Idagrove	91	38	65.6	3.45		
Flora	89	40	67.2	2.18		Rockville	87	39	65.4	3.98	Independence	87	35	62.8	3.32		
Friendgrove	86	42	67.8	2.33		Rome	91	37	69.2	5.71	Indianola	90 ^g	41 ^g	65.2 ^g	4.51		
Galva	90	38	64.2	3.64		Salem	91	30	68.5	4.12	Iowa City	89	39	64.8	1.95		
Grafton				3.40		Scottsburg	89	42	69.0	8.11	Iowa Falls	86	34	62.2	2.15		
Greenville	92	41	68.3	2.41		Seymour	87	40	67.6	4.55	Jefferson						
Griggsville	93	45	69.4	3.14		Shelbyville	88	38	67.6	2.66	Keosauqua	89	36	62.8	2.41		
Halfway	89	43	69.7	2.78		South Bend	89	39	68.8	5.52	Lacona						
Halliday	90	40	69.4	1.91		Syracuse	92	39	64.6	3.24	Lansing	87	35	64.9	2.08		
Havana	94	38	65.0	2.55		Terre Haute	90	43	68.6	2.24	Larchwood	91	35	64.6	3.34		
Henry	89	42	66.8	4.26		Topeka	88	41	62.5	3.31	Larrabee	93	34	65.4	3.02		
Hillsboro	89	42	66.8	1.84		Valparaiso	92	41	63.5	1.32	LeClaire						
Hooperston	94	36	65.4	1.84		Veedersburg	89 ^h	36 ^h	65.2 ^h	3.71	Lemars	92	36	64.8	3.80		
Joliet	90	40	64.4	1.68		Vevay	87	44	67.7	3.80	Lepox	89	40	64.5	2.65		
Kishwaukee	90	36	62.4	2.38		Vincennes	92	40	69.2	2.28	Leon	91	39	65.3	2.64		
Knoxville	93	36	64.0	2.43		Washington	91	38	68.4	3.11	Logan	93	38	65.4	3.73		
Lagrange	86	38	62.0	2.06		Winamac	96	38	64.2	4.24	Maple Valley						
Laharpe	93	37	66.0	2.20							Maquoketa	87	33	62.7	2.10		
Lanark	90	31	61.8	1.88							Marshalltown	90	36	64.1	2.74		
Loami				3.96							Mason City	87	42	65.6	1.42		
McLeansboro	90	44	69.2	4.09							Monticello	89	36	65.6	4.03		
Martinton	90	38	64.6	3.33							Mount Tavayr	85	38	64.6	3.38		
Mascoutah	87	44	67.0	3.92							Mount Pleasant	94	40	66.3	1.05		
Mattoon	84	36	65.0	3.12							Mount Vernon	91	38	66.1	1.17		
Minonk	91	37	64.6	4.12							New Hampton						
Monmouth	93	33	64.6	2.27							Newton	90	38	63.6	1.87		
Morrison	89	37	63.5	2.02							Northwood	81	38	63.4	3.24		
Morrisonville	89	41	66.6	3.15							Odebolt	94	37	65.2	2.70		
Mount Carmel				6.22							Ogden	88	36	59.4	5.42		
Mount Pulaski	89	39	66.8	1.98							Olin	90	35	63.8	1.42		
Mount Vernon	90	43	69.6	4.39							Onawa	93	43	67.2	3.35		
New Burnside	91	44	70.2	3.13							Osage	85	38	65.1	2.10		
Olnay	91	43	69.4	3.57							Oscoda	88	37	64.2	4.13		
Ottawa	89	42	67.2	3.78							Oskaloosa	91	38	64.7	1.73		
Palestine	92	38	69.4	2.51							Ottumwa	91	45</td				

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Iowa—Cont'd.	°	°	°	Ins.	Ins.	Kentucky—Cont'd.	°	°	°	Ins.	Ins.	Maine—Cont'd.	°	°	°	Ins.	Ins.
Toledo	89	34	64.0	2.07		Beattyville	89	40	68.3	5.19		Gardiner	82	37	61.0	5.12	
Vilisca	91	42	67.0	3.82		Beaver Dam	89	42	68.2	2.97		Houlton	82	33	60.5	2.45	
Vinton*	83	46	64.8	1.91		Berea	89	47	69.0	1.72		Kineo	84	36	59.6	2.79	
Wapello	89	42	64.8	2.99		Blandville	89	47	68.9	5.95		Lewiston	81	42	60.4	5.80	
Washington	92	35	63.8	1.70		Bowling Green	91	39	68.9	3.59		Mayfield	83	40	58.5	6.54	
Washta				4.72		Burnside	87	41	68.5	3.59		Milinocket	80	32	59.6	2.07	
Waterloo	85	37	63.2	1.93		Cadiz	92	42	69.8	1.92		North Bridgton	87	40	60.0	6.38	
Waverly	87	37	63.6	1.86		Calhoun	90	41	69.1	4.78		Orono	81	32	59.3	2.09	
Westbend	88	39	65.7	3.03		Catlettsburg	89	45	68.4	4.00		Patten	80	21	56.6	2.29	
Westbranch				1.57		Earlington	89	40	69.6	2.55		Rumford Falls	84	38	60.2	5.25	
West Union				0.75		Eubank	88	38	67.6	4.28		South Lagrange*	87	43	61.7		
Whitten	90	35	65.0	3.45		Falmouth						The Forks				4.36	
Wilton Junction	94	36	66.0	2.04		Fords Ferry	90	37	68.0	1.26		Vanburen	80	26	58.5	2.03	
Winterset	92	39	65.4	4.23		Frankfort	86	43	68.3	3.99		Vanceboro	80	40	65.7	3.40	
Woodburn				3.77		Franklin	89	51	69.4	5.45		Winslow	81	30	60.5	4.47	
Kansas.						Greensburg	89	35	68.1	3.84		Maryland.					
Achilles	98	33	62.6	0.96		Highbridge	90	42	69.2	1.59		Annapolis	88			4.95	
Alton	99	41	67.3	2.00		Hopkinsville	90	41	68.6	3.39		Bachmans Valley	83	47	64.3	13.87	
Anthony				0.38		Irvington	90	41	70.8	3.50		Boettcherville	96	41	67.4	7.49	
Atchison b.	92	47	67.5	1.78		Jackson	88	44	67.8	2.23		Boonsboro	87	45	65.8	5.48	
Baker	91	43	66.1	3.11		Leitchfield	88	42	67.6	5.43		Cambridge	91	47	68.2	4.36	
Beloit	98	44	67.7	2.63		Loretto	87	41	67.7	4.05		Chase	86			3.28	
Burlington	93	42	67.8	3.26		Manchester	92	43	68.8	6.30		Cheltenham	90	46	68.1	2.95	
Chanute	92	45	69.4	4.16		Marrowbone	92	38	69.3	5.22		Chestertown	87	48	66.8	3.12	
Clay Center	97	41	67.6	2.44		Mayfield	88	43	68.4	0.70		Chewsville	87	41	64.6	6.70	
Colby	97	35	64.2	2.19		Maysville	93	42	68.8	3.27		Clearspring	86	44	64.0	5.81	
Columbus	91	46	68.8	1.90		Middlesboro	85	44	67.9	1.85		Coleman	87	49	67.4	3.09	
Cottonwood	93	40	67.0	1.92		Mount Sterling	89	43	68.3	5.66		Collegepark	92	43	66.0	5.27	
Dresden	99	43	64.2	1.42		Owensboro	87	43	68.8	3.35		Colora.				5.34	
Ellinwood	96	41	67.4	3.97		Owenton	92	44	69.0	3.75		Cumberland				6.07	
Emporia	95	45	67.2	1.05		Paducah a.						Darlington	86	47	65.6	5.63	
Englewood	98	40	69.2	1.66		Paducah b.	96	48	71.9	0.83		Deepark	80d	35d	58.0d	6.55	
Eureka				0.57		Richmond	93	43	70.3	2.90		Denton	87	43	67.2	2.10	
Eureka Ranch	96	40	65.0	3.00		St. John	86	41	68.3	3.94		Easton	87	45	67.8	8.13	
Fall River	91	43	68.5	2.92		Scott	87	42	66.8	3.17		Fallston	84	48	65.4	5.37	
Farnsworth	95	38	64.2	1.99		Shelby City	88	42	67.8	1.87		Frederick	89	47	67.5	7.27	
Forsha	99	44	68.6	0.93		Shelbyville	89	42	69.8	4.63		Grantsville	81	36	59.2	6.43	
Fort Leavenworth	93	46	69.1	3.95		Taylorville	90	41	68.6	4.97		Greatfalls	88	49	67.6	4.86	
Fort Scott	92	45	68.0	4.64		Williamsburg	88	42	68.7	4.15		Greenspring Furnace	90	47	67.0	7.06	
Frankfort	98	41	67.4	3.64		Williamstown	88	41	66.0	3.64		Hancock	92	43	67.0	8.19	
Garden City	102	37	66.5	2.83		Louisiana.						Harney				7.63	
Gove*	98	40	68.9	1.21		Abbeville	96	55	77.0	4.22		Jewell	85	51	67.0	5.91	
Grenola	92	43	67.1	0.82		Alexandria	99	50	75.0	5.40		Johns Hopkins Hospital	88			5.22	
Hanover	98	43	68.8	2.55		Amite	98	53	76.5	2.98		Laurel	87	45	66.7	6.41	
Harrison	96	39	65.5	1.65		Baton Rouge	94	54	75.6	4.19		McDonough	87	47	66.2	6.36	
Hays	95	39	65.1	4.46		Burnside	94	50	76.2	5.86		Mount St. Marys College	85	49	65.3	8.17	
Holton	42			2.73		Calhoun	94	53	72.7	3.04		New Market.	85	48	65.9	12.08	
Horton	96	45	67.4	2.26		Cameron	90	56	75.2	2.43		Pocomoke City	86	51	68.8	4.23	
Hoxie	98	39	65.2	2.55		Caspian						Prince Fredericktown	88	44	68.2	4.26	
Hutchinson	97	39	66.0	1.48		Cheneyville	98	50	74.8	3.49		Princess Anne	84	43	66.4	3.11	
Independence	97	47	71.2	1.52		Clinton	91	52	74.4	4.48		Sharpsburg	86	48	65.6	5.97	
Jetmore	99	40	64.8	1.08		Collinston	96	52	74.2	1.15		Solomons	84	52	68.4	3.12	
La Crosse	96	39	64.7	2.63		Covington	97	53	77.4	7.48		Sudlersville	90d	45d	67.0d	4.39	
Lakin	96	38	65.2	3.99		Donaldsonville	98	55	76.3	2.97		Takoma Park	86	48	66.0	6.35	
Lebanon	96	40	65.6	1.60		Emilie	93	57	76.3	5.16		Van Bibber	83	49	66.2	4.97	
Lebo	94	47	68.4	3.46		Farmerville						Westernport	89	41	63.0	6.95	
Leoti	96	32	63.3	3.46		Franklin	96	55	77.6	4.79		Woodstock	88	46	67.3	5.16	
Macksville	96	40	64.2	1.20		Grand Coteau	95	53	76.1	7.29		Massachusetts.					
McPherson	99	44	67.7	1.20		Hammond	95	52	76.6	8.51		Amherst	86	38	60.3	7.79	
Madison	94	41	67.0	1.53		Houma	96	54	76.9	4.28		Bedford	82	38	59.0	8.31	
Manhattan b.	101	42	69.6	1.61		Jennings						Bluehill (summit)	83	45	58.7	6.46	
Manhattan c.	99	42	67.8	2.34		Lafayette	95	51	76.1	2.79		Cambridge	86	40	60.6	7.40	
Marion	97	45	68.7	1.75		Lake Charles	94	55	75.8	9.14		Cohasset	85	40	60.8	8.14	
Meade	101d	41d	68.4d	2.58		Lake Providence	93	53	73.4	3.23		Concord	84	36	58.8	8.30	
Medicine Lodge	102	39	68.0	0.63		Lakeside	94	56	76.6	2.87		East Templeton*	84	46	60.5	5.51	
Minneapolis	96	43	67.5	2.29		Lawrence	94	58	77.4	8.22		Fall River.	82	46	61.2	5.14	
Moran	90	46	68.3	3.10		Leesville	98	49	73.3	4.85		Fitchburg a*	78	48	59.9	10.34	
Mounthope*	94	47	69.7	0.45		Libertyhill	99	52	74.2	2.61		Fitchburg b	84	42	59.3	8.98	
Ness City	103	42	68.6	1.66		Mansfield	95	47	71.8	3.23		Framingham	86	37	60.1	8.55	
Norwich	96	42	68.1	0.60		Meiville	93	51	77.2	4.85		Groton	83	38	59.2	10.92	
Oberlin				1.46		Minden	100	54	75.4	1.82		Hanniss				3.25	
Olathe	90	46	66.8	2.94		Monroe	95d	56	74.8	1.58		Jefferson				8.97	
Osborne				3.79		New Iberia	91	57	76.3	5.70		Lawrence.	86	38	60.2	7.53	
Osgego	90	45	68.8	2.24		Opelousas	95	53	75.2	7.77		Leominster				9.89	
Ottawa	92	42	66.5	3.05		Oxford	98	50	73.6	3.33		Lowell a.	85	40	61.4	9.11	
Phillipsburg				3.10		Paincourtville	93	56	76.0	3.79		Lowell b.	84	40	60.8	0.00	
Pittsburg	89	55	71.1	2.35		Plain Dealing	97	52	72.8	2.01		Ludlow Center	83	36	55.7	8.03	
Pleasanton	92	46	68.4	2.49		Port Eads	89	64	77.6	3.91		Middleboro</					

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.
	Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.	
<i>Michigan—Cont'd.</i>	°	°	°	In.	In.	<i>Michigan—Cont'd.</i>	°	°	°	In.	In.	<i>Mississippi—Cont'd.</i>	°	°	°	In.
Alma.....	87	38	61.5	2.99		Wasepi	86	40	61.8	3.50		Lake.....	95	49	73.0	4.59
Ann Arbor.....	87	43	62.5	5.13		Waverly	83	38	61.4	1.96		Lake Como.....	96	47	73.6	2.48
Annpere.....	84	39	57.3	1.92		Weberville	86	41	61.1	3.99		Laurel.....	101	51	77.2	3.12
Balbela.....	85	42	62.2	6.25		West Branch	85	36	60.2	2.10		Louisville.....	95	48	71.9	2.16
Baldwin ¹	86	34	59.6	0.75		Wetmore	77	19	49.0	0.70		McNeill.....	97	54	76.8	4.39
Ball Mountain.....	85	45	60.4	5.00		Whitecloud ¹	83	30	58.0	3.94		Macon.....	98	51	74.8	1.75
Baraga.....	83	24	54.2	.....		Whitefish Point	75	39	52.6	1.72		Magnolia.....	95	50	74.8	5.09
Battlecreek.....	89	41	62.4	2.24		Ypsilanti.....	86	43	61.6	3.95		Natchez.....	94	51	74.8	6.58
Bay City.....	88	35	59.2	2.40		<i>Minnesota.</i>						Nittanyuma.....	96	50	74.8	2.24
Benzonia.....	88	35	59.2	2.94		Albert Lea	84	41	64.0	3.25		Patmos.....				
Berlin.....	92	42	60.4	4.28		Alexandria ^a	85	36	62.9	0.90		Pearlington.....	95 ^c	55	77.0 ^c	3.12
Berrien Springs.....	92	39	63.2	3.42		Angus.....	86	32	60.9	0.61		Pittsboro.....	94	47	71.6	3.72
Big Rapids.....	83	34	59.8	1.93		Ashby ^b	87	42	63.8	1.92		Pontotoc.....	90	49	70.6	3.03
Birmingham.....	86	41	61.8	1.04		Beardsley	86	28	62.6	3.48		Poplarville.....	98	54	77.6	4.05
Boon.....	81	32	56.0	3.20		Beaulieu	84	32	61.0	0.36		Port Gibson.....	94	49	74.0	2.36
Calumet.....	81	37	59.1	1.27		Bemidji	87	44	62.4	2.96		Ripley.....	93	45	68.8	1.45
Cassopolis.....	92	38	64.2	3.90		Bird Island	85	39	63.2	3.58		Shoecoe.....	97	48	73.6	2.80
Charlevoix.....	80	40	58.8	2.03		Blooming Prairie	82	37	62.2	2.20		Suffolk.....	92	49	73.2	4.53
Chatham.....	87	26	56.0	1.71		Caledonia.....	82	36	62.2	3.58		Swartwout.....	95	53	75.8	4.87
Cheboygan.....	82	36	58.8	2.10		Collegeville	86	40	65.2	2.25		Thornton.....	94	54	75.8	3.12
Clinton.....	90	43	63.8	3.09		Crookston	89	35	63.1	0.70		Tupelo.....	95	49	71.7	3.26
Coldwater.....	90	43	64.4	3.20		Currie	84	33	63.6	.....		University.....	93	48	71.6	2.80
Deerpark.....	80	34	52.8	1.71		Deephaven						Walnutgrove.....	100	44	73.4	2.78
Detour.....	84	39	58.8	1.91		Detroit	85	31	61.4	1.03		Watervalley.....	95	48	70.7	4.45
Dundee.....	87	45	62.4	3.91		Duluth (sub station)	82	34	58.1	0.83		Waynesboro.....	95	50	74.6	3.01
Eagle Harbor.....	80	35	52.0	1.07		Faribault	86	35	62.6	0.85		Westpoint.....	93	49	73.8	2.40
East Tawas.....	88	57	58.4	3.66		Farmington	83	37	62.8	1.10		Woodville.....	93	53	74.4	4.74
Eloise.....	89	43	62.8	4.39		Fergus Falls	87	38	64.5	1.52		Yazoo City.....	97	50	74.5	1.21
Ewen.....	84	23	56.0	1.14		Floodwood	85	25	58.3	1.40		<i>Missouri.</i>				
Fennville.....	85	38	61.9	2.64		Glencoe	84	38	63.4	2.25		Arthur.....	90	44	67.8	7.74
Fitchburg.....	87	42	60.5	3.63		Grand Meadow	89	37	63.5	1.99		Avalon.....	94	40	69.0	1.77
Flint.....	86	43	60.7	5.47		Hallock	87	32	61.8	2.55		Bagnell.....				
Frankfort.....	75	42	55.6	0.81		Lake Winnibigoshish	83	33	60.6	1.20		Bethany.....	94	40	65.2	1.22
Gaylord.....	83	25	56.4	1.70		Leech	85	29	60.4	0.92		Birchtree.....	88	44	67.4	3.91
Gladwin.....	86	39	61.2	1.75		Long Prairie	88	32	61.6	1.44		Blue Springs.....	90	41	65.6	1.91
Grand Marais.....	75	36	55.6	2.56		Luverne	85	38	62.5	2.12		Boonville.....				
Grand Rapids.....	89	38	64.2	4.21		Lynd	83	35	62.3	5.22		Brunswick.....	93	40	67.6	2.62
Grape.....	89	43	62.6	2.23		Mapleplain	88	36	65.4	1.26		Carrollton.....	91 ^a	43	68.2 ^b	2.64
Grayling ¹	86	33	59.4	0.60		Milaca	89	30	60.4	1.26		Caruthersville.....	95	47	70.8	1.68
Hagar.....	89	38	61.8	2.85		Milan	85 ^c	36 ^c	63.1 ^c	3.78		Conception.....	91	42	66.8	1.54
Hanover.....	88	41	62.5 ^c	2.63		Minneapolis ¹	89 ^c	35	65.3	1.60		Darksville.....	89	40	66.3	4.26
Harbor Beach.....	86	40	58.0	2.29		Montevideo	86	36	63.0	2.39		Dean.....	90	40	66.2	2.55
Harrison.....	75	35	55.8	2.33		Morris	86	36	63.4	1.48		Desoto.....	88	45	66.8	2.91
Harrisville.....	80	40	57.6	3.32		Mount Iron	85	27	59.8	1.63		Downing.....				
Hart.....	89	48	64.4	2.76		New London	90	36	64.3	2.34		Edgehill.....	88	37	65.8	3.04
Hastings.....	88	39	62.8	1.84		New Richland	88	40	64.2	2.16		Edwards.....	90	38	66.6	5.86
Hayes.....	85	38	59.5	3.60		New Ulm	90	41	67.2	3.20		Eightmile ^{*\$}	50	67.8	3.88	
Highland Station.....			5.34			Park Rapids	85	33	60.6	1.79		Fairport.....				
Hillsdale.....	87	42	61.5	3.81		Pine River	90	30	62.8	1.46		Fayette.....	91	43	68.2	4.16
Humboldt.....	88	18	53.0			Pipestone	81	35	61.0	2.83		Fulton.....	91	40	67.8	2.88
Ionia.....	90 ^d	38 ^d	62.2 ^d	2.50		Pleasant Mounds	83	41	63.2	2.96		Gallatin ^{*1}	94	48	68.8	2.18
Iron Mountain.....	86	30	60.5	1.75		Pokegama Falls	85	25	58.8	1.30		Glasgow.....	91	43	67.6	2.69
Iron River.....	84	24	55.7	1.60		Redwing a						Gorin.....				
Ironwood.....	83	32	58.8	1.01		Redwing b	84	38	64.6	1.96		Grant City.....	92	42	65.7	2.37
Isthpeming.....	84	29	55.8	1.69		Reeds						Halfway.....	88	43	66.6	5.60
Ivan.....	84	33	59.6	2.71		Rolling Green	85	40	64.1	2.92		Harrisonville.....	92	43	67.8	3.56
Jackson.....	91	43	64.4	3.17		St. Cloud	86	40	64.2	1.28		Hazlehurst.....				
Kalamazoo.....	88 ^c	38 ^c	63.6 ^c	1.80		St. Peter	86	40	64.4	2.82		Hermanu.....				
Lake City.....	85	30	62.3	1.05		Sandy Lake Dam	88	30	61.0	1.59		Houston.....	90	40	67.5	3.17
Lansing.....	86	43	62.4	4.16		Shakopee	83	39	64.1	1.95		Huntsville.....	91	40	66.6	3.63
Lapeer.....	86	43	59.6	5.24		Thief River Falls	83	35	61.7	1.10		Ironton.....	93	36	67.7	3.77
Lincoln.....	84	32	61.0	2.36		Tower	87	28	56.4	1.30		Jackson.....	91	40	68.8	2.34
Ludington.....	85	32	61.0	2.86		Two Harbors	87	32	55.2	2.98		Jefferson City.....	93	45	67.9	2.25
Mackinac Island.....	80	40	58.1	1.86		Wabasha	90	37	55.5	2.21		Joplin.....	89	46	68.6	3.37
Mackinaw.....	80	40	58.8	2.51		Warroad	85	34	62.4	.....		Kidder.....	92	42	66.4	2.17
Mancelona.....	90	34	61.6	0.35		Willow River	90	28	60.7	1.65		Koshkonong.....	89	42	67.8	2.11
Manistique.....	78	36	56.4	1.51		Winnebago	90	40	65.4	1.41		Lamar.....	91	45	68.6	2.34
Marine City.....	89	36	60.5	2.94		Winnebago.....	85	40	63.8	2.00		Lamonte.....				
Menominee.....	83	35	59.4	4.76		Winona	85	40	63.8	2.00		Lebanon.....	90	43	67.4	2.95
Midland.....	88	37	61.9	2.78		Worthington	84	33	63.2	4.60		Lexington.....	91	43	67.5	3.03
Mio.....	82	32	58.1	2.10		Wyoming	85	35	62.6	1.81		Liberty.....	92	42	67.2	3.07
Montague.....	81	36	59.2	1.71		Zumbrota	85	35	62.6	.....		Louisiana.....	90	40	66.4	3.61
Mount Pleasant.....	87	35	62.6	2.94		<i>Mississippi.</i>						Macon.....	92	39	67.2	4.07
Muskegon.....	83	44	62.2	1.60		Aberdeen	96	45	73.5	3.25		Marblehill.....	91	40	68.0	3.12
Newberry.....	89	29	60.4			Agricultural College	93	50	72.6	2.36		Marshall.....	89	42	66.7	4.07
Old Mission.....	82	41	60.0	2.32		Batesville	93	47	71.6	4.97		Maryville.....	90	42	65.5	2.45
Olivet.....	85	43	62.2	2.90		Biloxi	95	60	77.6	2.55		Mexico.....	92	39	67.1	6.32
Omer.....	88	31	58.8	1.08		Boggan	98	48	74.3	1.04		Miami ^{*4}	92	51	69.8	

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Missouri—Cont'd.	°	°	°	Ins.	Ins.	Nebraska—Cont'd.	°	°	°	Ins.	Nebraska—Cont'd.	°	°	°	Ins.	Ins.	
St. Joseph.....	90	45	67.1	3.74	2.36	Culbertson	°	°	°	Ins.	Westpoint.....	°	°	°	Ins.	Ins.	
Sarcocie.....	90	45	65.3	8.30	2.92	Curtis.....	91 ^b	40 ^b	62.5 ^b	1.75	Wilber ^{*1}	96	39	66.4	2.28		
Sedalia.....	87	41	65.3	3.80	2.92	Dannebrog	95	40	65.0	1.77	Willard.....	94	42	67.9	1.32		
Seymour.....	89	43	68.3	3.80	2.92	David City	93	43	67.4	3.01	Wilsonville	92	38	63.2	4.12		
Shelbina.....	91	41	66.0	2.82	2.82	Edgar.....	.....	.....	.....	1.70	Winnебago .....	.....	.....	.....	2.44	
Sikeston.....	91	39	65.6	4.87	2.82	Ericson .....	.....	.....	.....	1.60	Wisner.....	.....	.....	.....	4.19	
Steffenville.....	91	43	67.6	2.68	2.68	Ewing .....	.....	.....	.....	2.32	Wymore .....	.....	.....	.....	1.61	
Sublett.....	91	39	65.6	4.87	2.82	Fairbury	98	39	65.8	1.64	York .....	.....	.....	.....	.....
Trenton.....	91	43	67.6	2.68	2.68	Fairmont	94	39	64.4	2.98	Nevada.....	.....	.....	.....	.....
Unionville.....	92	42	67.0	3.85	2.82	Fort Robinson	95	32	62.2	0.71	Austin	86	41	63.0	0.60		
Vichy.....	89	39	66.2	4.59	2.82	Fremont	94	39	66.2	3.15	Battle Mountain	97	42	70.7	0.34		
Warrensburg.....	91	45	67.6	3.72	2.82	Geneva	95	41	65.4	3.15	Belmont	97	37	62.9	0.90		
Warrenton.....	91	39	67.8	3.12	2.82	Genoa (near)	93	39	66.3	1.32	Beowawe ^{*1}	97	54	72.8	0.43		
Wheatland.....	.....	.....	.....	3.68	2.82	Gering	93	36	63.0	1.95	Caliente	104	40	71.0	0.00	
Willowsprings.....	88	39	66.2	3.13	2.82	Gordon .....	.....	.....	.....	1.40	Candelaria	94	46	68.8	0.39	
Windsor.....	88	43	66.0	3.18	2.82	Gosper .....	.....	.....	.....	3.00	Carlin ^{*1}	96	38	69.6	0.00	
Zeitonia.....	95	38	68.1	2.79	2.82	Gothenburg	93	35	64.0	3.38	Carson City	91	32	62.2	0.02		
Montana.....	.....	.....	.....	.....	Grand Island ^a .....	.....	.....	.....	3.78	Cranes Ranch .....	.....	.....	.....	0.75		
Anaconda.....	90	40	62.2	.....	.....	Grand Island ^b	95	39	65.6	3.11	Elko	92	37	63.3	1.60	T.
Augusta.....	86	32	60.0	1.36	.....	Grand Island ^c	99	40	67.1	2.43	Ely	93	40	62.2	0.18	
Billings.....	95	26	60.4	.....	.....	Hartington	93	35	64.5	3.65	Eureka	95	40	64.0	0.10	
Boulder.....	86	32	59.0	0.85	.....	Harvard	92	39	64.1	1.86	Fallon	95	39	67.2	0.30	
Bozeman.....	82	39	59.6	9.45	.....	Hastings ^{*1}	96	45	64.0	3.35	Fenelon	95	60	74.2	0.30	
Butte.....	84	38	59.5	0.80	.....	Hay Spring	91	36	59.8	2.16	Golconda ^{*1}	94	48	71.2	0.30	
Canyon Ferry.....	89	41	64.7	1.28	.....	Hebron	94	40	65.8	2.29	Halleck ^{*6}	95	28	53.2	0.78	
Chester.....	90	40	62.2	0.04	.....	Hickman .....	.....	.....	.....	Hamilton	97	45	67.6	0.00		
Chinook.....	93	36	64.6	.....	.....	Holbrook .....	.....	.....	.....	Hawthorne	95	44	67.2	1.35		
Columbia Falls.....	87	33	61.2	1.53	.....	Hodge regre.....	.....	.....	.....	Humboldt	96	37	63.3	0.54		
Culbertson.....	89	29	63.5	2.46	.....	Hooper ^{*1}	96	48	67.0	3.35	Ie Lee	90	35	63.2	T.	
Crow Agency.....	95	37	66.6	2.05	.....	Imperial	95	38	63.4	1.35	Lewers Ranch ^c	93	38	61.2	0.00	
Dayton.....	87	39	61.3	2.50	.....	Johnstown .....	.....	.....	.....	Lovelock	97	38	61.2	0.00		
Deer Lodge.....	85	38	59.2	.....	.....	Kearney	94	42	64.8	4.63	McAfee Ranch	97	40	65.8	0.30	
Dillon.....	82	33	58.4	1.64	.....	Kennedy	92	37	63.7	2.35	Martins	93	33	64.2	0.00	
Fort Benton.....	.....	.....	.....	1.43	.....	Kimball	96	38	61.4	1.38	Mill City ^{*1}	94	53	69.8	0.00	
Fort Harrison.....	85	42	63.1	.....	.....	Kirkwood	91	35	64.6	2.44	Morey	98	38	65.1	0.65	
Glasgow.....	96	33	65.2	.....	.....	Leavitt	96	40	68.7	1.91	Palmetto	93	36	61.4	1.54	
Glendive.....	95	32	64.8	1.30	.....	Lexington	93	38	63.4	3.18	Potts	94	32	62.3	0.55	
Great Falls.....	87	40	65.0	2.19	.....	Lockridge	97	37	64.8	2.26	Reno State University	94	34	63.4	0.22	
Hamilton.....	89	42	62.4	1.41	.....	Lodgepole	91	33	60.8	0.84	Rioville	113	58	84.8	0.07	
Hayden.....	92	37	63.3	2.54	.....	Loup	94	34	64.2	2.13	Silverpeak	101	45	73.2	0.16	
Kipp [*]	86	30	57.4	.....	.....	Lynch	96	33	65.4	3.11	Sodaville	102	46	71.8	0.47	
Lamedeer.....	96	32	65.3	1.81	.....	McCool Junction .....	.....	.....	.....	Tecoma	99	40	66.9	T.		
Lewistown.....	85	37	60.6	1.75	.....	Madison	93	38	64.3	1.86	Wabuska	100	32	66.4	0.09	
Livingston.....	87	34	63.0	3.24	.....	Madrid	90	32	61.2	1.47	Wadsworth	98	34	68.4	0.00	
Manhattan.....	89	35	63.0	1.67	.....	Marquette .....	.....	.....	.....	Wood	93	37	62.0	0.33		
Marysville ^d	80	35	57.9	2.24	.....	Mason .....	.....	.....	.....	New Hampshire.....	.....	.....	.....	.....
Missoula.....	92	45	65.8	.....	.....	Minden	92	39	63.4	2.67	Alstead	81	38	61.0	7.37	
Ovando.....	89	31	57.4	2.52	.....	Monroe .....	.....	.....	.....	Berlin Mills	80	30	57.8	6.91		
Parrot.....	86	41	63.2	2.21	.....	Nebraska City ^c	93	40	66.0	1.62	Bethlehem	81	36	58.4	3.64	
Poplar.....	88	40	60.8	2.12	.....	Nemaha .....	.....	.....	.....	Brookline ^{*1}	88	46	61.9	10.25		
Red Lodge.....	83	27	57.0	2.06	.....	Norfolk	97	35	65.0	3.02	Chatham	82	37	57.4	12.47	
Ridge lawn.....	89	33	63.8	1.82	.....	North Loup	94	36	65.7	2.33	Concord	83	35	59.0	8.57	
St. Paul.....	86	34	62.0	1.86	.....	Oakdale	94	36	65.0	4.30	Durham	84	36	58.4	7.70	
St. Peter.....	81	29	57.0	2.31	.....	Odell .....	.....	.....	.....	Franklin Falls	81	40	58.2	8.98		
Springbrook.....	95	29	64.1	2.09	.....	O'Neill	93	38	64.6	1.33	Grafton	84	29	57.4	8.07	
Toston.....	91	26	57.0	1.39	.....	Orl.....	.....	.....	.....	Hanover	84	34	60.4	6.14		
Townsend.....	.....	.....	.....	0.90	.....	Osceola .....	.....	.....	.....	Keene	85	34	59.6	6.17		
Twin Bridges.....	89	34	60.6	.....	.....	Palmer .....	.....	.....	.....	Littleton	82	38	55.3	5.72		
Twodot.....	87	32	62.2	2.19	.....	Palmyra ^{*1}	92	48	66.7	3.75	Nashua	86	37	60.2	7.69	
Utica.....	89	35	61.9	2.81	.....	Pawnee City .....	.....	.....	.....	Newton	85	32	57.4	9.60		
Wolf Creek.....	85	34	60.6	1.91	.....	Plattsmouth ^a .....	.....	.....	.....	Plymouth	88	31	59.4	6.34		
Wolsey.....	83	26	55.2	1.12	.....	Plattsmouth ^b	98	41	67.4	1.54	Sanbornton	81	36	57.8	7.02	
Yale.....	90	32	60.0	1.07	.....	Plattsmouth ^c	91 ^b	38	65.6	1.22	Stratford	85	31	59.2	3.18	
Nebraska.....	.....	.....	.....	.....	.....	Palmer .....	.....	.....	.....	New Jersey.....	.....	.....	.....	.....
Agate.....	98	29	60.3	1.97	.....	Palmyra ^{*1}	92	48	66.7	3.75	Asbury Park	87	50	62.6	6.98	
Agree ^{*1}	96	46	65.4	1.63	.....	Pawnee City .....	.....	.....	.....	Barnegat	84	45	63.5	5.68		
Albion.....	91	36	63.4	2.20	.....	Plattsmouth ^a .....	.....	.....	.....	Bayonne	86	48	63.4	9.83		
Alliance.....	96	35	64.8	1.40	.....	Plattsmouth ^b	98	41	67.4	1.54	Bergen Point	85	47	63.0	10.95	
Alma.....	98	38	66.0	2.03	.....	Plattsmouth ^c	91 ^b	38	65.6	1.22	Beverly	87	47	65.9	6.05	
Ansley.....	95	34	63.7	2.90	.....	Purdum	92	36	64.2	3.94	Blairstown	87	40	63.4	12.69	
Arapahoe.....	.....	.....	.....	2.40	.....	Ravenna ^a .....	.....	.....	.....	Bridgeton	89	47	67.2	3.46		
Arcadia.....	.....	.....	.....	2.52	.....	Ravenna ^b .....	.....	.....	.....	Canden	84	51	65.6	7.30		
Ashland ^a	96	42	67.1	2.30	.....	Red cloud .....	.....	.....	.....	Canton .....	.....	.....	.....	3.42		
Ashland ^b.....	.....	.....	.....	2.65	.....	Rule .....	.....	.....	.....	Cape May C. H.	83	48	65.0	2.39		
Ashton.....	.....	.....	.....	2.06	.....	Schuyler	96	46	69.4	3.07	Charlotteburg	85	37	61.3	9.45	
Auburn.....	96	40	66.7	1.88	.....	Seward	96	46	69.4	3.74	Chester	82	44	61.6	12.80	
Aurora.....	98	40	66.4	3.10	.....	Smithfield .....	.....	.....	.....	Clayton	85	46	64.4	3.09</		

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
New Jersey—Cont'd.	°	°	°	Ins.	Ins.	New York—Cont'd.	°	°	°	Ins.	Ins.	North Carolina—Cont'd.	°	°	°	Ins.	Ins.
Plainfield	86	44	63.8	10.14	4.58	Honeymead Brook	53	42	61.0	12.23		Mountairy	90	49	69.0	2.13	
Rancocas						Indian Lake	79	30	55.3	6.47		Murphy					6.61
Ringwood	88	38	62.0	10.13		Ithaca	35	43	60.8	5.67		Newbern	89	49	73.4	4.60	
Rivervale	85	42	62.6	10.62		Jamestown	36	38	61.2	3.58		Patterson	82	40	63.2	8.37	
Salem	90	46	66.6	2.48		Keene Valley	84	31	58.7	9.25		Penelo	89	49	70.9	5.97	
Somerville	89	43	63.9	11.66		King Ferry						Pittsboro	94	45	72.2	1.92	
South Orange	84	46	63.0	9.28		Liberty	80	44	59.0	9.34		Reidsville	90	44	69.6	8.39	
Sussex	86	42	62.4	14.87		Littlefalls, City Res.	82	47 ^a	60.6*	6.98		Rockingham	93	50	73.3	5.60	
Toms River	88	41	63.8	7.18		Lockport	83	40	62.3	3.21		Roxboro	88	46	69.5	4.63	
Trenton	83	53	66.4	8.09		Lowville	83	33	59.6	5.83		Salem	93	45	70.4	7.75	
Tuckerton	85	44	64.6	8.02		Lyndonville						Salisbury	93	49	72.8	3.34	
Vineland	84	45	64.6	2.61		Middletown	78	49	61.6	12.06		Saxon	85	40	68.4	8.24	
Woodbine	84	42	63.8	3.53		Mohonk Lake	50	44	58.6	12.44		Selma	94	46	72.2	5.19	
Woodstown				3.10		Moira	84	35	62.2	6.71		Settle	92	46	72.1	5.89	
New Mexico.						Mount Elrick	80	42	59.6	6.95		Sloan	91 ^c	58 ^c	74.6 ^c	4.68	
Alamagordo	108	49	75.6	1.30		Newark Valley						Soapstone Mount	90	44	69.8	3.38	
Albert	100	46	66.2	5.90		New Lisbon	81	34	57.8	7.04		Southern Pines a	94	50	73.9	8.13	
Albuquerque	99	48 ^b	68.4 ^b	2.48		North Hammond						Southern Pines b	91	49	73.2	6.68	
Alma	101	30	66.6	1.21		North Lake						Southport	90	54	75.4	7.04	
Arabela	93	43	63.6	6.81		Number Four	83	34	58.8	7.21		Springhope	91	50	71.8	6.03	
Bellranch				5.09		Nunda	89	35	61.6	4.01		Statesville	90	41	69.6	4.52	
Cambray				0.43		Ogdensburg	86	38	62.8	8.53		Tarboro	92	46	73.2	5.26	
Carlsbad	103	49	74.0	4.65		Old Chatham						Washington	98	51	76.3	5.26	
Deming				3.32		Oneonta	85	33	60.3	6.83		Waynesville	86	41	63.8	4.27	
Dorsey	90	34	60.2	8.60		Oswegatchie	81	41	60.6	8.71		Weldon a.	89	50	71.1	9.84	
Eagle Rock Ranch	87	32	58.6	5.34		Otto	81	45	61.6	5.16		Weldon b.				10.01	
Engle	100	48	68.6	2.39		Oxford	82	38	60.6	7.56		North Dakota.					
Fort Bayard	103	44	68.6	1.75		Oyster Bay	88	39	61.4	10.20		Amenia	86	33	62.6	0.54	
Fort Stanton	92	41	60.4	3.41		Palermo						Ashley	92	30	60.5	1.48	
Fort Union.	90	38	58.0	6.69		Penn Yan	86	40	62.8	6.14		Berlin	90	31	60.3	1.80	
Fort Wingate	89	42	62.7	1.36		Plattsburg	85	36	60.4	4.45		Bottineau	85	36	61.3	1.38	
Galisteo				3.10		Port Jervis	85	42	61.6	13.76		Buxton	86	34	62.2	0.29	
Golden				3.17		Potsdam	85	34	62.0	6.00		Cando	90	32	61.4	1.73	
Hot Springs	90	40	58.3			Primrose	87	41	61.7	9.44		Church's Ferry 4	88	35	62.7	0.99	
Las Vegas	95	40	59.8	6.24		Redhook						Dickinson	94	31	63.4	1.18	
Lordsburg				0.58		Richmondville	85	36	59.9	8.84		Donnybrook					
Los Lunas.	98	48	72.0	2.05		Ridgeway	85	40	61.2*	3.66		Dunseith	91	35	61.3	1.16	
Luna	95	35	60.7	3.02		Ronie	83	43	63.2	7.25		Edgeley	87	36	63.3	1.57	
Mesilla Park	103	45	72.2	3.65		Romulus	86	42	63.2	10.74		Ellendale	94	35	64.0	1.14	
Mountainair	95	41	61.8	2.96		Salisbury Mills						Fargo	87	33	62.3	0.56	
Raton	94	35	61.6	9.44		Saranac Lake	82	29	58.1	4.49		Fornan	90	33	63.6	2.99	
Roswell	97	48	69.4	4.37		Saratoga Springs	87	38	61.2	7.92		Fort Yates	94	36	66.0	2.08	
San Marcial	105	51	73.8			Scottsville						Fullerton	91	32	62.1	1.62	
Strauss				2.82		Setauket	83	45	61.2	7.84		Gallatin	85	34	59.9	0.40	
Taos	97	40	61.7	3.56		Shokan						Glenullin	94	34	63.5	2.69	
Winsors	83	32	52.0	5.29		Shortsville	85	40	61.6	5.19		Grafton	89	33	63.8	0.99	
New York.						Skaneateles	82	45	61.0	6.10		Jamesstown	90	29	61.2	0.51	
Adams				4.46		Southampton	82	45	61.0	4.67		La Moure					
Addison	87	38	62.0	5.90		South Butler						Larimore	89	34	61.4	0.70	
Akron				3.36		South Canisteo	84	42	60.8	5.49		Libson	86	31	62.0	2.41	
Alden	84	42	61.9	4.80		Southeast Reservoir						McKinney	89	32	60.6	1.86	
Amsterdam				10.37		South Kortright	84	34	58.6	6.21		Manfred	90	35	62.5	1.62	
Angelica	84	33	58.7	4.54		South Schroon	80	32	57.6	8.91		Mayville	87	27	58.8	0.04	
Appleton	88	40	60.7	2.92		Speer Falls	87	40	60.9	7.53		Medora	87	32	64.1	2.32	
Arcade	83	34	58.2	4.14		Straits Corners	84	33	58.4	6.18		Melville	95 ^d	35 ^d	65.0 ^d	0.48	
Athens	87	44	62.4	7.93		Ticonderoga	83	39	61.6	5.80		Milton	92	35	61.5	1.65	
Atlanta	85	36	59.3	4.66		Volusia	80	45	59.6	6.05		Minnewaukon	90	36	63.6	1.20	
Auburn	86	41	62.8	7.04		Walton	84	34	59.3	7.20		Minot	96	40	67.4	1.95	
Avon	88	35	61.6	4.03		Wappinger Falls	82	42	61.5	20.63		Minto	89	32	62.0	0.65	
Axton	84	22	55.8	5.56		Warwick						Napoleon	96	33	63.8	1.94	
Baldwinsville	85	43	62.3	7.20		Watertown	87	40	62.6	4.78		New England	88 ^b	38 ^b	60.3 ^b	1.25	
Beaver	83	25	57.1	5.18		Waverly	89	35	62.4	6.67		Oakdale	87	34	62.6	2.26	
Bedford	86	44	61.9	10.46		Wedgewood	84	41	59.4	5.53		Pembina	90	32	62.4	2.54	
Berlin	83	35	59.4	8.32		Wells	84	30	58.1	8.52		Portal	84	31	59.2	3.13	
Blue Mountain Lake				6.75		West Berne	82	31	57.6	6.55		Power	90	32	63.8	0.74	
Bolivar	85	35	58.5	5.60		Westfield b.	82	47	61.8	4.91		Steel	93	38	64.1	1.35	
Bouckville	82	42	60.3	10.25		Westfield c.	83 ^b	46 ^b	61.0*	3.14		University	86	34	61.2	0.49	
Boys Corner				11.81		Windham	85	33	59.6	8.09		Willow City	86	38	60.8	1.98	
Brookport	89	37	62.6	2.62		Youngstown						Wishek	95	33	66.4	2.05	
Brown Station				12.36		North Carolina.						Ohio.					
Caldwell	86	39	60.1	8.31		Brevard	84	38	63.6	12.00		Akron	90	47	62.6	2.46	
Canajoharie	84	36	60.3	9.41		Brewers	90	45	67.6	8.28		Bangorville	87	42	63.4	3.85	
Canaan Four Corners	82	38	59.0	10.86		Bryson City						Bellefontaine	87	41	63.0	5.41	
Carmel	88	46	62.0	12.70		Chapelhill	93	46	72.0	4.87		Benton Ridge	90	46	64.5	2.45	
Carvers Falls	84	35	60.4	4.29		Currituck						Bloomingburg					
Cedarhill	87	40	62.2	7.26		Edenton	95	50	73.0	4.00		Bowling Green	90	44	63.6	2.77	
Chazy	83	33	62.2	6.54		Fayetteville	92	51	72.8	4.42		Cucamonga	88	44	64.2	4.24	
Clockville				7.83		Flatrock	83 ^b	38 ^b	64.2*	11.15		Cambridge	85	40	64.8	4.26	
Cooperstown	81	40	59.4	7.35		Goldsboro	88	51	72.2	6.07		Camp Dennison	90	43	67.3	3.40	

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>South Carolina—Cont'd.</i>	•	◦	◦	Ins.	Ins.	<i>Tennessee—Cont'd.</i>	◦	◦	◦	Ins.	Ins.	<i>Texas—Cont'd.</i>	◦	◦	◦	Ins.	Ins.	
Heath Springs.....	94	56	73.4	10.19		Covington.....	92	48	70.4	2.36		Hallettsville.....	95	55	78.0	3.41		
Kingtree a.....	93	54	74.8	9.55		Decatur.....	88	40	69.8	6.58		Haskell.....	98	48	73.6	4.98		
Kingtree b.....	96	45	72.8	4.93		Dickson.....	82	42	66.9	5.72		Hearne.....	100	56	80.0	3.21		
Liberty.....	94	49	73.8	8.61		Dover.....	88	41	67.4	2.24		Henrietta.....	101	42	72.8	4.69		
Little Mountain.....	94	49	74.0	9.12		Dyersburg.....	88	48	69.6	0.58		Hewitt.....				5.72		
Longshore.....	95	49	74.0	9.72		Elizabethton.....	91	44	67.7	2.45		Hillsboro.....	96	51	75.0	5.43		
Lugoff.....	93	50	72.6	9.72		Erasmus.....	86	35	64.2	4.18		Hondo.....				3.48		
Pinopolis *1.....	86	59	74.5	6.83		Florence.....	88	42	69.6	4.65		Houston.....	99	55	78.7	3.70		
St. Georges.....	90	56	75.6	8.62		Franklin.....	87	44	69.2	4.72		Huntsville.....	93	52	74.6	4.11		
St. Matthews.....	89	55	74.4	18.25		Grace *1.....	94	48	71.0	6.70		Ira.....	102	50	72.1	2.06		
St. Stephens.....	94	50	73.8	8.28		Greeneville.....	89	40	66.6	3.04		Jacksonville.....	94	48	73.0	4.61		
Saluda.....	94	50	72.0	6.97		Halls Hill.....						Jasper.....	92	55	73.8	6.88		
Santuck.....	93	46	72.0	6.97		Harriman.....	88	44	68.0	6.54		Junction.....				4.32		
Seivern.....	95	48	74.8	11.11		Hohenwald.....	90	35	66.0	3.87		Kaufman.....	96	47	74.4	3.92		
Smiths Mills.....				6.09		Iron City.....	90	40	68.2	4.74		Kent.....	100	46	71.8	4.31		
Society Hill.....	90	54	74.0	8.58		Isabella.....	86	43	68.6	7.17		Kerrville.....	92	40	70.8	3.93		
Spartanburg.....	92	45	71.6	9.96		Jackson.....	95	41	69.2	1.65		Kopperl.....				5.06		
Statesburg.....	90	53	74.4	18.42		Johnsville.....	92	41	69.2	4.69		Lamapass.....	96	47	73.6	3.91		
Summerville.....	89	53	74.5	7.37		Jonesboro.....	88	45	67.6	3.56		Lapara.....				5.65		
Sumter.....	94	51	75.8	14.33		Kenton.....	92	43	69.2	1.87		Laureles Ranch.....				6.89		
Temperance.....	94	53	74.9	6.52		Kingston.....						Llano.....	102	58	74.6	2.60		
Trenton.....	93	59	75.4	6.12		Leadvale.....						Longview.....	97	53	74.3	3.80		
Trial.....	90	50	72.8	5.47		Lewisburg.....	90	41	70.1	3.58		Luling.....	95	53	75.8	3.17		
Walhalla.....	90	44	70.5			Liberty *1.....	88	40	69.1			McKinney.....	97	44	73.9	4.91		
Walterboro.....	91	52	75.4	7.14		Lynville.....	92	42	70.2	4.41		Mann.....	94	47	73.6	4.53		
Winnsboro.....	93	51	74.0	10.17		Rogersville.....	89	41	68.0	2.48		Marlin.....	97	56	75.0	4.17		
Winthrop College.....	90	48	72.4	6.92		Rugby.....	89	32	65.8	2.92		Menardville.....	100	43	71.6	3.88		
Yemassee.....	91	55	76.1	10.86		Savannah.....	95	48	70.5	3.86		Mount Blanco.....	95	49	68.4	2.35		
Yorkville.....	95	50	74.2	5.96		Sewanee.....	84	41	66.8	7.66		Nacogdoches.....	94	48	71.8	2.99		
<i>South Dakota.</i>						Silverlake.....	81	44	63.3	5.29		New Braunfels.....	94	54	76.9	5.63		
Aberdeen.....	95	37	67.4	1.50		Springdale.....	88	39	69.2	3.73		Paner.....				3.49		
Academy.....	92	35	65.8	2.72		Springville.....	91	39	68.7	3.41		Paris.....	99	47	74.3	3.15		
Alexandria.....	91	35	65.4	2.25		Tazewell.....						Pearall.....	102	55	78.7	2.81		
Armour.....	94	36	66.5	2.89		Tellico Plains.....	89	41	69.8	5.46		Port Lavaca.....	91	57	77.2	7.71		
Ashcroft.....	95	31	63.8	2.15		Tracy City.....	87	39	66.6	6.57		Rhineland.....	97	45	72.3	2.65		
Bowdle.....	96	35	65.0	2.65		Trenton.....	94	42	69.2	3.34		Rock Island.....	93	54	76.6	1.86		
Brookings.....	87	30	62.2	4.16		Tullahoma.....	90	40	69.2	5.08		Rockport.....	89	60	77.2	12.67		
Canton.....	89	32	64.7	2.38		Union City.....	90	45	69.0	1.32		Runge.....	100	54	79.2	2.04		
Cavite.....	94	35	67.0	2.51		Waynesboro.....	93	39	69.0	5.63		Sanderson.....	103	55	76.0	3.90		
Centerville.....				5.23		Wildersville.....	86	45	68.8	2.39		San Marcos.....	97	51	76.6	3.90		
Chamberlain.....	93	41	68.0	1.45		Yukon.....	89	45	69.8	3.61		San Saba.....	98	45	73.2	4.33		
Cherry Creek.....	95	42	66.6	4.09		<i>Texas.</i>						Sherman.....	93	51	73.1	3.09		
Clark.....	98	32	66.9	4.52		Albany.....	93	52	71.6	2.87		Sonora.....	100	50	71.6	4.77		
Doland.....	90	31	64.8	8.51		Alvin.....	96	56	77.5	5.60		Sugarland.....	94	55	76.8	3.42		
Elkpoint.....	97	39	68.2	4.04		Anson.....						Sulphur Springs.....	94	52	73.6	3.62		
Fairfax.....	90	39	65.8	2.77		Arthur.....						Temple a.....	91	50	73.0	4.12		
Farmingdale.....				2.02		Austin a.....	98	56	78.2	2.73		Temple b.....	95	51	74.4	3.90		
Faulkton.....	98	38	66.0	4.04		Ballinger.....	98	50	72.5	2.91		Trinity.....	95	50	75.3	5.78		
Flandreau.....	82	34	61.4	3.00		Beaumont.....	97	53	75.8	6.17		Tyler.....	98	54	74.6	4.70		
Forestburg.....	89	31	64.6	1.96		Beeville.....	101	57	77.6	6.39		Victoria.....	95	51	78.2	4.05		
Fort Meade.....	96	33	64.8	2.16		Big Spring.....	102	50	73.4	2.93		Waco.....	98	54	76.8	5.46		
Gann Valley.....	94	35	66.8	1.59		Blanco.....	94	50	71.6	4.38		Waxahachie.....	98	48	75.4	3.15		
Gettysburg.....	92	38	65.2	3.04		Boerne *1.....	96	50	73.1	6.15		Weatherford.....	97	48	73.8	5.66		
Grand River School.....	94	37	65.7	4.55		Bonham.....	99	51	73.4	2.75		Weimar.....	95	54	78.3	1.75		
Greenwood.....	92	39	66.3	2.36		Booth.....						Wharton.....	94	57	78.2	1.45		
Highmore.....				2.93		Bowie.....	96	45	72.1	3.30		Wichita Falls.....				3.59		
Hitchcock.....				4.02		Brazoria.....	95	54	76.3	5.05		<i>Utah.</i>						
Hotch City.....	93	36	64.0	2.10		Brenham.....	93	54	76.3	5.05		Aneth.....	101	46	70.9	0.51		
Howard.....	87	33	64.0	4.60		Brighton.....	89	59	77.0	5.43		Blackrock.....	94	41	64.8	0.33		
Howell.....	94	35	65.7	2.84		Brownwood.....	99	46	72.1	0.90		Blue creek.....				T.		
Kimball.....	89	37	64.6	1.73		Burnet.....	94	53	74.2	4.07		Castledale.....	96	34	63.8	1.01		
Leola.....	102	34	66.0	1.25		Camp Eagle Pass.....	99	55	78.3	5.12		Corinne.....	99	46	70.8	0.15		
Marion.....	88	36	64.3	5.12		Childress.....	98	47	72.4	2.40		Desert.....	98	40	67.0	0.40		
Mellette.....	93	34	65.0	3.31		Clarksville.....	94	45	71.4	5.75		Emery.....	80	39	58.7	0.85		
Menoa.....	88	34	64.8	3.65		Coleman.....	97	53	71.4	2.24		Escalante.....	96	45	66.4	1.43		
Millbank.....	88	32	64.6	2.80		College Station.....	101	53	77.4	1.81		Farmington.....	94	45	69.2	0.10		
Mitchell.....	90	36	65.7	2.38		Colorado.....	100	50	74.2	2.40		Fillmore.....	102	46	71.0	0.04		
Oelrichs.....	97	38	62.6	1.00		Columbia.....	93	55	76.7	4.07		Fort Duchesne.....	98	41	65.2	0.28		
Pedro.....	95	33	65.6	2.30		Comanche.....	95	47	72.2	3.06		Frisco.....	98	47	69.7	0.66		
Pine Ridge.....	94	31	62.8	1.41		Corsicana.....	100	41	72.7	4.24		Garrison.....	97	36	66.6	0.54		
Plankinton.....	91	38	65.8	2.88		Hartwell.....	98	47	72.4	2.40		Giles.....	104	43	69.7	0.65		
Ramsey.....	86	30	62.8	5.03		Clarksville.....	94	45	71.4	5.75		Government Creek.....	93	44	66.2	0.14		
Redfield.....	92	31	64.6	4.17		Coleman.....	97	53	78.8	2.78		Green River.....				0.05		
Rosebud.....	99	36	66.8	1.17		College Station.....	101	53	77.4	1.81		Grover.....	92	41	63.8	0.80		
St. Lawrence.....	95	36	65.3	1.90		Colorado.....	100	50	74.2	2.40		Heber.....	92	36	6			

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Utah—Cont'd.</i>						<i>Washington—Cont'd.</i>						<i>West Virginia—Cont'd.</i>					
Pinto	89	27	59.4	0.17	Ins.	Danville	94	49	65.4	1.98	Ins.	Southside	•	•	•	Ins.	Ins.
Plateau	93	32	58.4	0.47		Dayton	93	39	67.6	1.74		Terra Alta	88	48	68.4	3.75	
Provo	93	41	65.6	0.30		East Sound	89	38	59.2	0.87		Travellers Repose	84	34	59.7	12.30	
Ranch	88	34	57.8	1.56		Ephrata	93	37	64.4	1.28		Uneeda	83	34	58.8	5.22	
Richfield	93	33	63.9	T.		Grandmound	104	40	72.2	0.05		Uppertract	91	45	70.6	2.77	
St. George	110	46	75.9	0.00		Granite Falls	98	29	60.6	3.38		Valley Fork	87	40	63.6	6.02	
Scipio	98	36	66.8	0.36		Hooper	100	38	70.0	0.40		Wellsburg	86	44	66.1	4.21	
Snowville	91	37	64.4	0.46		Horseheaven	100	38	70.0	0.40		Weston	81	45	63.4	5.73	
Soldier Summit	90	32	60.7	0.00		Ilwaco	100 ^a	38	58.3	5.51		Wheeling ^a	87	49	69.2	4.96	
Terrace	94	46	68.8	0.35		Lacenter	96	35	61.6	4.06		Wheeling ^b	92	41	68.4	3.54	
Thistle	96	44	68.7	0.35		Lakeside	96	50	69.4	0.88		Williamson	90	32	61.1	1.50	
Tooele	92	49	69.0	0.19		Lind	103	43	72.4	0.26		Wisconsin.	84	35	62.4	1.24	
Tropic	90	40	63.2	0.87		Loomis	97	49	71.2	1.23		Antigo	90	32	61.1	0.93	
Vernal	95	43	67.6	0.89		Mayfield	97	34	61.2	4.31		Appleton	84	35	62.4	3.04	
Wellington	97	38	66.0	0.83		Mottinger Ranch	102	48	72.3	0.52		Ashland	90	30	62.6	0.98	
Woodruff	87	32	57.8	0.22		Mount Pleasant	94	43	62.2	4.56		Barron	84	30	62.6	0.50	
<i>Vermont.</i>						Moxee	94	38	67.0	0.79		Beloit	88	40	62.8	0.50	
Burlington	80	44	64.5	4.92		Northport	97 ^a	37	65.8 ^a	2.06		Brodhead	89	35	63.8	1.28	
Cavendish	86	34	58.6	8.24		Odessa	100	32 ^a	66.6	0.05		Butternut	85	25	58.6	1.58	
Chelsea	81	38	58.8	4.85		Olga	79	45	58.4	0.98		Chilton	86	34	62.6	2.55	
Cornwall	85	38	62.3	4.20		Olympia	96	33	62.0	3.10		Chippewa Falls	87	34	65.0	0.10	
Derby	83	40	60.7	4.00		Pasco	108	40	67.0	0.02		Citypoint	90	34	65.0	2.57	
Enosburg Falls	84	33	61.0	4.14		Pinehill	99	40	65.8	2.00		Darlington	90	42	64.2	2.11	
Hartland	83	32	58.2	6.26		Pomeroy	100	41	68.8	1.09		Delavan	91	37	62.3	1.44	
Jacksonville	80	31	56.6	11.65		Port Townsend	83	44	58.6	0.71		Dodgeville	88	29	61.6	6.6	
Manchester	83	38	59.7	5.59		Pullman	91	42	65.0	1.46		Downing	90	30	61.0	1.62	
Morrisville	88	29	61.4	5.23		Rattlesnake	89	37	64.2	0.48		Easton	89	29	62.4	2.08	
Norwich	83	33	59.0	7.02		Republic	94	38	63.0	1.25		Eau Claire	85	30	63.8	2.44	
St. Johnsbury	86	33	60.8	3.54		Ritzville	87	40	61.2	0.18		Florence	84	27	58.5	2.12	
Wells	86	40	61.2	4.68		Ritzville (near)	87	40	63.0	0.26		Fond du Lac	85	34	63.0	1.07	
Woodstock	84	33	59.6	6.05		Rosalia	89	40	63.4	1.46		Grand Rapids	85	34	62.6	1.08	
<i>Virginia.</i>						Sedro-Woolley	93	35	61.2	2.48		Grand River Locks	87	31	62.6	1.92	
Alexandria	86	51	69.1	3.69		Silvana	89	39	59.4	1.26		Grantsburg	87	31	61.6	1.12	
Ashland	85	47	68.2	3.65		Snohomish	97	46	61.6	1.40		Hancock	87	31	61.6	1.53	
Barboursville	83	49	67.2	13.20		Snouqualmie	97	40	63.4	2.98		Harvey	86	36	62.9	8.87	
Bedford	91	45	70.4	8.04		Southbound	94	34	58.4	5.98		Hayward	87	28	59.8	1.78	
Bigstone Gap	88	44	67.3	2.22		Sprague	98	42	65.5	1.05		Hillsboro	86	30	61.4	2.64	
Blacksburg	84	43	63.9	4.62		Sunnyside	95	39	69.1	0.52		Koepenick	89	26	58.4	1.80	
Bluemont	84	48	65.2	10.99		Trinidad	102	45	74.8	0.00		Lancaster	84	35	63.2	1.56	
Bonair	93	48	69.7	4.73		Twisp	94	40	65.9	1.17		Madison	84	40	63.6	1.39	
Boykins						Union	97	39	60.8	3.86		Manitowoc	88	35	61.6	0.92	
Buckingham	90	45	68.4	3.29		Usk	92 ^a	37	64.2 ^a	1.95		Meadow Valley	88	31	61.3	1.33	
Burkes Garden	78	38	59.5	5.60		Vancouver	98	40	63.4	2.06		Medford	92	30	63.0	0.90	
Callaville	87	47	69.0	4.97		Vashon	86	41	60.4	1.92		Menasha	88	31	62.1	3.32	
Charlottesville	85	51	67.1	15.82		Waterville	96	37	65.9	0.09		Neillsville	92	30	63.0	1.93	
Clarksville						Wenatchee (near)	94	40	66.6	0.24		New London	87	32	62.1	1.56	
Columbia	90	42	66.0	4.50		Whatcom	86	40	59.5	1.68		North Crandon	90	34	63.8	3.80	
Dale Enterprise	84	41	63.6	6.45		Wilbur	89	30	62.4	0.50		Oconto	84	34	61.7	3.80	
Danville	91	52	70.8	3.70		Zindel	101	52	74.2	2.07		Osceola	88	31	62.1	2.26	
Farmville	87	40	68.0	3.82		<i>West Virginia.</i>						Oshkosh	87	36	63.6	1.18	
Fredericksburg	90	47	68.0	3.82		Addison	90	45	65.4	6.70		Pine River	90	31	62.5	0.92	
Grahams Forge	82 ^a	43 ^a	64.4 ^a	4.32		Bayard	82	35	59.2	6.13		Portage	87	36	64.4	1.67	
Hampton	90	50	69.6	5.49		Beverly	82	40	62.0	6.78		Port Washington	84	35	60.2	1.73	
Hot Springs	83	42	62.0	7.78		Bluefield	80	43	65.8	3.97		Prairie du Chien ^a	90	38	65.4	1.46	
La Crosse	92	45	69.3	5.90		Burlington	87	37	63.5	3.86		Prairie du Chien ^b	89	39	61.4	1.43	
Lexington	84	44	66.4	7.65		Byrne	88	43	64.4	4.54		Racine	90	38	61.8	3.61	
Lincoln	88	44	66.2	12.27		Cairo	88	40	66.5	5.37		Sheboygan	85	39	61.4	1.43	
McDowell	82	40	61.6			Central	85	41	64.5	4.22		Stevens Point	89	26	61.3	1.88	
Manassas	86	53	67.4	3.13		Chapel	95	50	72.8	2.93		Valley Junction	89	34	63.2	1.84	
Mendota						Charleston	90 ^a	47 ^a	70.0 ^a	4.08		Viroqua	81	34	62.0	2.67	
Newport News	94	57	75.2	9.67		Creston	90	44	67.4	4.90		Watertown	85	34	61.9	2.32	
Petersburg	87	48	69.0	10.25		Cuba	86	43	66.0	4.90		Waupaca	84	30	62.8	2.77	
Quantico	89	46	68.4			Dayton	88	40	62.9	4.21		Wausau	86	32	61.2	0.78	
Radford						Echo	93	42	68.4	3.59		Whitehall	84	30	61.7	2.48	
Riverton						Elkhorn	86	44	65.0	2.71		<i>Wyoming.</i>					
Roanoke	82	47	64.8	6.68		Fairmont	87	40	66.2	5.88		Afton	81	32	58.0	1.00	
Rockymount						Glenville	88	44	66.2	4.52		Alcova	97	33	61.8	0.53	
Saxe	90	44	69.0	3.10		Grafton	85	40	64.2	4.96		Basin	95	40	70.2	0.62	
Shenandoah						Green Sulphur Springs	86	42	65.0	3.23		Bedford	76	29	54.4	1.15	
Speers Ferry						Harpers Ferry	87	40	65.6	5.08		Border	83	31	56.8	1.11	
Spottsville	89	42	69.0	5.73		Hinton	86	48	66.0	3.53		Buffalo	86	28	59.3	1.59	
Standardsville	93 ^a	46	64.2 ^a	7.68		Huntington	90	45	68.4	4.66		Centennial	79	34	53.0	1.16	
Staunton	85	45	64.6	10.71		Josiah	87 ^a	47 ^a	66.4 ^a	4.94		Chugwater	87	28	57.4	1.09	
Stephens City	87	45	65.5	7.57		Leonard	78	40	60.6	6.87		Danefi	75	30	51.6	0.77	
Warsaw	88	50	68.5	6.24		Lewisburg	85	42	63.0	4.44		Embar	98	35	66.6	1.63	
Westpoint	84	60	74.0	6.35		Lillydale	87	42	65.0	2.01		Evanston	82	33	56.0	0.19	
Wilkinson	89	49	68.2	4.14		Logan	90	46	69.3	4.01		Fontenelle	82	27	56.3	1.40	</td

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Wyoming—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>West Indies.</i>	°	°	°	Ins.	Ins.
Tensleep	90	37	64.7	0.15		Columbia, Isle of Pines ...	92	68	80.6	11.80	
Thayne	79	26	55.2	1.53		Consuelo S. P. Macori S. D.	93	68	80.2	7.48	
Thermopolis	93	38	68.3	1.66							
<i>Porto Rico.</i>											
Adjuntas	89	60	75.4	4.08							
Aguirre	90	71	80.6	5.85							
Arecibo	95	69	79.4	3.10							
Barros	87	61	74.8	0.03							
Bayamon	89	60	74.6	2.55							
Caguas	94	58	80.7	4.66							
Canovanas	95	74	83.0	5.04							
Cayey	98	62	80.9	4.35							
Cidra	90	54	71.5	4.15							
Coamo	93	65	77.2	1.73							
Corozal	93	65	79.4	1.82							
Fajardo	91	71	81.6	3.45							
Hacienda Coloso	92°	64°	78.6*	16.70							
Hacienda Josefa				8.45							
Hacienda Perla	98	70	82.8	7.47							
Humacao	91	78	84.3	7.72							
Isabela	88	68	75.9	5.74							
Juana Diaz	91	70	81.1	1.87							
La Carmelita	87	66	75.6	7.04							
La Isolina	93	65	78.2	11.65							
Lares	93	61	77.9	14.58							
Las Marias	93	67	78.8	12.39							
Manati	100	68	81.6	3.40							
Maunabo	96	72	84.3	10.67							
Mayaguez	93	66	80.0	12.42							
Morovis	95	62	79.9	8.80							
Ponce	91	70	81.4	2.14							
Rio Piedras				3.68							
San German	95	71	84.0	6.09							
San Lorenzo	92	67	79.2	8.68							
San Salvador	90	64	76.8	4.42							
Santa Isabel	92	71	81.0	2.17							
Utuado	94	66	80.3	7.85							
Vieques	93	70	81.1	3.13							
Yauco	90	70	81.6	1.09							
<i>Mexico.</i>											
Ciudad P. Diaz	95	47	73.2	4.84							
Coatzacoalcos	101	70	81.0	18.36							
Leon de Aldamas	89	50	71.0	2.99							
Vera Cruz	89	69	80.6	10.45							
<i>New Brunswick.</i>											
St. John	73	41	56.7	3.07							
<i>Isthmus of Panama.</i>											
Albajuela	96	72	81.1	10.55							
Bohio				8.15							
Colon				10.90							
Gamboa				11.06							
La Boca	88	73	79.9	2.48							
<i>Alaska.</i>											
Fort Egbert						64	10	40.1	1.38	0.2	
Fort Gibbon						65	13	39.4	0.16		
Fort Yukon									0.35		
Juneau						60	36	46.8	6.74		
Killisnoo						61	31	45.4	2.55		
Skagway						64	31	48.4	1.10		
Wood Island						61	33	44.0	4.92		
<i>California.</i>											
Claremont						86	37	60.6	0.00		
Mills College									0.00		
Le Grand						104	38	67.5	0.00	8.0	
Pilot Creek									0.92		
Santa Paula						85	50	68.1	0.10		
<i>Illinois.</i>											
Effingham						90	28	70.3	0.68		
<i>Iowa.</i>											
Mount Pleasant									3.82		
<i>Kansas.</i>											
Gove*1						85	40	57.0	3.66		
Harrison						86	30	60.4	13.70		
Osage City						85	25	62.8	8.97		
<i>Mississippi.</i>											
Brookhaven						90	43	71.8	3.77		
Hazlehurst						91	42	71.0	6.03		
Natchez						91	44	72.1	2.85		
Port Gibson						91	42	71.4	2.77		
<i>New Mexico.</i>											
Cloudcroft						66	25	47.5	1.20		
Roswell						92	35*	63.4*	0.74		
<i>South Carolina.</i>											
Kingstree						97	52	70.8	1.35		
St. George						96	54	71.2	2.17		
St. Matthews						97	54	70.6	3.79		
Yemassee						97	54	71.2	4.50		
<i>Texas.</i>											
Anson									1.40		
Rockport						84	56	71.4	1.20		
La Isolina						91	59	76.2	16.71		
<i>Ontario.</i>											
Peterboro									3.86		

EXPLANATION OF SIGNS.

*Extremes of temperature from observed readings of dry thermometer.

A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 4

2 Mean of 8 a. m. + 8 p. m. + 2

3 Mean of 7 a. m. + 7 p. m. + 2

4 Mean of 6 a. m. + 6 p. m. + 2

5 Mean of 7 a. m. + 2 p. m. + 2

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

An italic letter following the name of a station, as "Livingston *a*," "Livingston *b*," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance "*a*" denotes 14 days missing.

No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks, of whatever duration, in the precipitation record receive appropriate notice.

CORRECTIONS.

May, 1903, Arkansas, Princeton, make mean temperature 68.4 instead of 68.6. Florida, Archer, make precipitation 5.63 instead of 5.66. Minnesota, Detroit, make mean temperature 55.0 instead of 54.4. Washington, Granite Falls, make precipitation 7.85 instead of 7.88.

TABLE III.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of June, 1903.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>					o	Hours.						o	Hours.
Eastport, Me.	18	18	26	18	e.	13	Moorhead, Minn.	23	20	22	11	n. 75 e.	11
Portland, Me.	17	26	19	10	s. 45 e.	13	Bismarck, N. Dak.	21	17	23	10	n. 73 e.	14
Concord, N. H.	13	7	15	3	n. 63 e.	13	Williston, N. Dak.	22	16	21	11	n. 59 e.	12
Northfield, Vt.	14	38	10	8	s. 5 e.	24							
Boston, Mass.	17	20	24	13	s. 75 e.	11	<i>Upper Mississippi Valley.</i>						
Nantucket, Mass.	15	24	24	3	s. 61 e.	18	Minneapolis, Minn.*	11	9	9	10	n. 27 w.	2
Block Island, R. I.	14	24	24	11	s. 52 e.	16	St. Paul, Minn.	19	18	21	17	n. 76 e.	4
Narragansett, R. I.*	7	12	14	3	s. 66 e.	12	La Crosse, Wis.†	11	13	5	6	s. 27 w.	2
New Haven, Conn.	21	21	24	8	e.	16	Davenport, Iowa.	24	8	18	22	n. 14 w.	16
<i>Middle Atlantic States.</i>							Des Moines, Iowa.	22	16	17	18	n. 9 w.	6
Albany, N. Y.	16	32	14	9	s. 17 e.	17	Dubuque, Iowa.	25	10	17	24	n. 25 w.	17
Binghamton, N. Y.†	9	7	16	5	n. 80 e.	11	Keokuk, Iowa.	27	8	17	21	n. 12 w.	19
New York, N. Y.	9	20	30	12	s. 43 e.	26	Cairo, Ill.	21	19	12	21	n. 77 w.	9
Harrisburg, Pa.	14	16	22	18	s. 63 e.	4	Springfield, Ill.	21	10	16	24	n. 36 w.	14
Philadelphia, Pa.	11	23	25	13	s. 45 e.	17	Hannibal, Mo.†	11	9	9	11	n. 45 w.	3
Scranton, Pa.	21	21	21	15	e.	6	St. Louis, Mo.	25	15	14	19	n. 27 w.	11
Atlantic City, N. J.	11	23	21	17	s. 18 e.	13							
Cape May, N. J.	15	20	24	11	s. 65 e.	14	<i>Missouri Valley.</i>						
Baltimore, Md.	16	16	24	15	e.	9	Columbia, Mo. *	11	4	7	12	n. 36 w.	9
Washington, D. C.	16	22	22	13	s. 56 e.	11	Kansas City, Mo.	29	17	16	12	n. 18 e.	13
Cape Henry, Va.†	10	10	11	8	e.	6	Springfield, Mo.	31	12	17	12	n. 15 e.	20
Lynchburg, Va.	22	16	21	20	n. 9 e.	6	Topeka, Kans.*	12	10	10	5	n. 68 e.	5
Norfolk, Va.	15	24	22	11	s. 51 e.	14	Lincoln, Nebr.	22	23	18	12	s. 80 e.	6
Richmond, Va.	17	19	21	16	s. 68 e.	5	Omaha, Neb.	27	20	15	11	n. 30 e.	8
Wytheville, Va.	14	11	19	29	n. 73 w.	10	Valentine, Nebr.	19	23	18	12	s. 56 e.	17
<i>South Atlantic States.</i>							Sioux City, Iowa †	13	8	11	7	n. 39 e.	6
Asheville, N. C.	24	17	10	19	n. 52 w.	11	Pierre, S. Dak.	17	23	30	8	s. 75 e.	23
Charlotte, N. C.	19	21	20	13	s. 74 e.	7	Huron, S. Dak.	18	25	24	9	s. 65 e.	17
Hatteras, N. C.	13	24	16	18	s. 10 w.	11	Yankton, S. Dak.†	8	6	13	11	n. 45 e.	3
Kittyhawk, N. C. *	9	12	7	12	s. 59 w.	6							
Raleigh, N. C.	15	15	18	23	w.	24	<i>Northern Slope.</i>						
Wilmington, N. C.	13	19	9	32	s. 75 w.	24	Havre, Mont.	17	10	24	23	n. 8 e.	7
Charleston, S. C.	10	29	10	22	s. 32 w.	22	Miles City, Mont.	21	16	24	14	n. 63 e.	11
Columbia, S. C.	13	22	16	21	s. 29 w.	10	Helena, Mont.	16	22	7	33	s. 77 w.	27
Augusta, Ga.	16	25	15	20	s. 29 w.	10	Kalispell, Mont.	10	13	13	36	s. 83 w.	28
Savannah, Ga.	9	30	6	26	s. 44 w.	29	Rapid City, S. Dak.	17	16	12	24	n. 85 w.	12
Jacksonville, Fla.	10	33	16	21	s. 12 w.	24	Cheyenne, Wyo.	29	15	13	16	n. 12 w.	14
<i>Florida Peninsula.</i>							Lander, Wyo.	21	18	11	22	n. 75 w.	11
Jupiter, Fla.	10	27	22	14	s. 25 e.	19	North Platte, Nebr.	12	25	21	17	s. 17 e.	14
Key West, Fla.	8	27	24	12	s. 32 e.	22							
Tampa, Fla.	18	15	25	18	n. 67 e.	8	<i>Middle Slope.</i>						
<i>Eastern Gulf States.</i>							Denver, Colo.	29	15	15	10	n. 20 e.	15
Atlanta, Ga.	23	11	12	26	n. 49 w.	18	Pueblo, Colo.	15	12	26	18	n. 69 e.	8
Macon, Ga.†	13	11	4	9	n. 68 w.	5	Concordia, Kans.	21	20	15	12	n. 72 e.	3
Pensacola, Fla.†	10	9	5	16	n. 85 w.	11	Dodge, Kans.	21	23	29	9	s. 80 e.	11
Mobile, Ala.	16	24	7	24	s. 65 w.	19	Wichita, Kans.	27	18	24	8	n. 61 e.	18
Montgomery, Ala.	23	17	12	19	n. 49 w.	9	Oklahoma, Okla.	23	15	21	11	n. 51 e.	13
Meridian, Miss.†	14	7	7	9	n. 16 w.	7							
Vicksburg, Miss.	23	16	19	18	n. 8 e.	15	<i>Southern Slope.</i>						
New Orleans, La.	13	26	15	23	s. 32 w.	15	Abilene, Tex.	20	20	27	7	e.	20
<i>Western Gulf States.</i>							Amarillo, Tex.	14	28	26	6	s. 55 e.	24
Shreveport, La.	25	10	24	15	n. 31 e.	18							
Fort Smith, Ark.	18	13	23	14	n. 61 e.	10	<i>Southern Plateau.</i>						
Little Rock, Ark.	25	15	14	23	n. 42 w.	14	El Paso, Tex.	21	4	27	19	n. 25 e.	19
Corpus Christi, Tex.	16	24	29	5	s. 72 e.	25	Santa Fe, N. Mex.	16	16	26	17	s. 70 w.	9
Fort Worth, Tex.	21	14	16	18	n. 16 w.	7	Flagstaff, Ariz.	7	17	10	37	n. 41 e.	11
Galveston, Tex.	21	23	20	12	s. 76 e.	8	Phoenix, Ariz.	13	5	29	22	s. 60 w.	11
Palestine, Tex.	25	19	20	12	n. 53 e.	10	Yuma, Ariz.	4	35	4	31	s. 41 w.	41
San Antonio, Tex.	22	18	30	6	n. 81 e.	24	Independence, Cal.	18	20	17	22	s. 68 w.	5
Taylor, Tex.†	16	8	7	3	n. 27 e.	9							
<i>Ohio Valley and Tennessee.</i>							<i>Middle Plateau.</i>						
Chattanooga, Tenn.	17	16	9	29	n. 87 w.	20	Carson City, Nev.	14	23	2	31	s. 73 w.	30
Knoxville, Tenn.	21	17	12	27	n. 75 w.	23	Winnemucca, Nev.	20	13	19	25	n. 41 w.	9
Memphis, Tenn.	31	11	12	23	n. 29 w.	23	Modena, Utah.	9	24	7	33	s. 60 w.	30
Nashville, Tenn.	22	13	7	32	n. 70 w.	10	Salt Lake City, Utah.	23	14	26	14	n. 53 e.	15
Lexington, Ky.†	7	9	7	9	s. 45 w.	3	Grand Junction, Colo.	13	23	28	14	s. 54 e.	17
Louisville, Ky.	21	17	14	20	n. 56 w.	7							
Evanston, Ind.†	9	10	8	7	s. 45 e.	1	<i>Northern Plateau.</i>						
Indianapolis, Ind.	27	13	18	18	n. 20 w.	15	Baker City, Oreg.	24	22	10	23	n. 81 w.	13
Cincinnati, Ohio.	17	13	21	22	n. 14 w.	4	Boise, Idaho.	16	13	16	30	n. 78 w.	14
Columbus, Ohio.	17	17	18	22	w.	4	Lewiston, Idaho.†	3	8	21	4	s. 74 e.	18
Pittsburg, Pa.	26	17	10	26	n. 61 w.	18	Pocatello, Idaho.	7	19	29	16	s. 47 e.	18
Parkersburg, W. Va.	20	19	16	17	n. 45 w.	1	Spokane, Wash.	13	25	15	16	s. 5 w.	12
Elkins, W. Va.	24	16	6	25	n. 67 w.	21	Walla Walla, Wash.	10	28	18	11	s. 21 e.	19
<i>Lower Lake Region.</i>													
Buffalo, N. Y.	11	19	17	25	n. 45 w.	11	<i>North Pacific Coast Region.</i>						
Oswego, N. Y.	13	27	16	17	s. 4 w.	14	North Head, Wash.	22	20	11	23	n. 81 w.	12
Rochester, N. Y.	16	20	19	20	s. 14 w.	4	Port Crescent, Wash. *	0	3	3	26	s. 83 w.	23
Syracuse, N. Y.	12	23	17	19	s. 10 w.	11	Seattle, Wash.	17	23	15	20	s. 40 w.	8
Erie, Pa.	16	17	19	19	s.	1	Tacoma, Wash.	26	14	4	29	n. 64 w.	28
Cleveland, Ohio.	20	19	16	19	n. 72 w.	3	Tatoosh Island, Wash.	6	28	14	25	s. 26 w.	25
Sandusky, Ohio.†	8	6	9	10	n. 27 w.	2	Portland, Oreg.	21	21	6	29	w.	23
Toledo, Ohio.	18	7	21	24	n. 15 w.	11	Roseburg, Oreg.	38	1	14	21	n. 11 w.	38
Detroit, Mich.	25	7	21	21	n.	18							
<i>Upper Lake Region.</i>							<i>Middle Pacific Coast Region.</i>						
Alpena, Mich.	22	13	23	15	n. 42 e.	12	Eureka, Cal.	32	11	7	23	n. 37 w.	26
Escanaba, Mich.	35	16	9	9	n.	19	Mount Tamalpais, Cal.	28	1	1	45	n. 59 w.	52
Grand Haven, Mich.	24	11	14	24	n. 38 w.	16	Red Bluff, Cal.	26	21	22	6	n. 72 e.	16
Houghton, Mich.†	7	1	11	13	n. 18 w.	6	Sacramento, Cal.	8	42	14	8	s. 10 e.	34
Marquette, Mich.	32	7	11	23	n. 26 w.	28	San Francisco, Cal. *	0	6	1	54	s. 83 w.	53
Port Huron, Mich.	31	6	19	15	n. 9 e.	25	Point Reyes Light, Cal. *	19	1	1	20	s. 47 w.	26
Sault Ste. Marie, Mich.	17	14	16	30	n. 78 w.	14	Southeast Farallon.	36	3	1	41	n. 50 w.	62
Chicago, Ill.	30	7	24	14	n. 23 e.	25							
Milwaukee, Wis.	28	13	12	19	n. 25 w.	17	<i>South Pacific Coast Region.</i>						
Green Bay, Wis.	23	20	15	15	n.	3	Fresno, Cal.	33	1	2	39	n. 45 w.	52
Duluth, Minn.	33	6	27	14	n. 26 e.	30	Los Angeles, Cal.	7	23	11	29	s. 48 w.	24
							San Diego, Cal.	15	21	4	33	s. 78 w.	30
							San Luis Obispo, Cal.	16	10	1	34	n. 80 w.	34

* From observations at 8 p. m. only. † From observations at 8 a. m. only.

TABLE IV.—*Thundershows and auroras, June, 1903.*

States.	No. of stations.																														Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No.	Days	
Alabama.....	52	T. A.	1	1	1	3	1	3	2	5	3	6	1	1	.	4	5	4	4	6	7	10	6	1	.	.	75	21	T.		
Arizona.....	56	T. A.	.	.	7	12	8	7	4	6	8	9	5	6	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	A.
Arkansas.....	57	T. A.	.	.	1	2	1	1	8	5	.	.	.	.	.	.	2	1	9	7	10	4	1	7	8	11	.	.	78	16	T.	
California.....	167	T. A.	.	.	3	3	3	9	7	3	5	.	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.	35	9	T.		
Colorado.....	81	T. A.	4	4	9	17	14	9	8	5	5	4	3	6	9	10	15	8	2	7	4	19	5	5	2	1	.	4	3	1	188	28	T.		
Connecticut.....	21	T. A.	.	.	.	.	.	.	1	1	1	2	.	.	10	.	.	.	1	1	16	.	.	7	.	.	15	10	.	65	11	T.
Delaware.....	5	T. A.	.	.	.	.	.	1	1	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	6	6	T.		
Dist. of Columbia.....	4	T. A.	.	.	.	.	.	1	.	1	.	.	.	1	1	.	1	.	.	.	.	.	.	.	.	.	1	1	.	7	7	T.
Florida.....	47	T. A.	7	11	10	5	12	10	14	12	16	8	4	4	.	.	3	3	4	6	4	5	15	5	6	9	15	12	12	10	14	14	250	28	T.
Georgia.....	55	T. A.	15	4	6	8	14	8	3	3	11	12	12	1	.	.	.	6	7	3	12	9	10	4	5	10	19	13	8	3	1	207	26	T.	
Idaho.....	84	T. A.	12	12	2	.	1	2	3	3	2	8	11	8	5	6	4	3	.	2	1	5	.	.	1	1	.	3	95	21	T.				
Illinois.....	92	T. A.	18	14	15	23	17	7	3	16	2	1	.	1	.	6	1	1	16	2	9	21	2	.	1	.	2	178	21	T.					
Indiana.....	58	T. A.	19	16	8	14	13	22	13	5	10	1	1	.	.	3	10	.	7	2	.	10	.	.	1	7	4	.	166	19	T.				
Indian Territory.....	11	T. A.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	6	2	3	1	1	4	2	2	.	21	8	T.		
Iowa.....	149	T. A.	3	1	10	13	2	2	11	25	2	2	.	.	.	.	2	24	14	1	8	1	7	12	3	.	2	24	32	201	22	T.
Kansas.....	77	T. A.	4	3	8	4	4	.	2	10	1	1	.	1	.	1	2	2	16	19	11	17	1	8	21	16	5	.	1	2	159	23	T.		
Kentucky.....	41	T. A.	13	1	1	3	2	4	.	4	6	.	.	1	.	1	4	1	2	2	2	7	.	.	1	3	5	10	.	0	0	73	20	T.	
Louisiana.....	46	T. A.	.	.	.	.	.	5	12	13	7	.	.	1	2	5	2	2	2	5	5	13	2	9	7	9	7	2	.	110	19	T.
Maine.....	19	T. A.	.	.	.	.	.	.	2	1	3	.	2	.	.	.	2	1	.	.	.	.	.	.	.	.	2	13	7	T.		
Maryland.....	48	T. A.	.	.	.	3	11	10	1	17	10	5	.	4	.	9	15	1	2	16	1	1	.	1	2	1	1	5	6	7	129	22	T.		
Massachusetts.....	48	T. A.	.	.	.	.	.	2	9	10	5	.	.	1	.	.	1	.	6	.	.	3	.	.	2	.	39	9	T.			
Michigan.....	106	T. A.	2	.	1	1	11	12	6	7	2	.	1	.	1	5	.	2	5	1	.	1	1	.	1	3	6	11	.	80	20	T.			
Minnesota.....	67	T. A.	.	.	1	1	1	1	1	1	.	.	.	4	.	3	11	1	1	2	1	.	.	1	5	17	25	.	0	0	76	16	T.		
Mississippi.....	44	T. A.	2	.	.	.	.	4	13	6	8	1	.	.	3	1	.	1	6	11	4	.	11	9	10	2	.	92	16	T.		
Missouri.....	95	T. A.	11	15	15	27	35	6	10	32	7	.	.	.	.	.	10	1	26	29	14	46	18	3	7	13	4	.	329	20	T.	
Montana.....	40	T. A.	7	2	2	4	2	.	.	.	.	8	9	1	.	6	13	4	2	5	1	3	4	1	1	.	4	6	85	20	T.	
Nebraska.....	142	T. A.	2	3	2	6	1	5	17	21	1	.	.	1	.	4	.	11	23	27	14	30	1	19	21	13	.	15	8	245	22	T.			
Nevada.....	40	T. A.	4	3	.	2	1	3	7	9	7	3	2	2	3	.	.	.	.	.	.	.	.	.	.	46	12	T.				
New Hampshire.....	19	T. A.	.	.	.	2	4	7	2	1	1	4	.	.	.	4	1	.	.	3	3	2	.	.	34	12	T.								
New Jersey.....	51	T. A.	.	.	.	4	20	1	22	10	1	4	17	.	.	8	8	5	.	.	.	.	.	8	5	.	113	13	T.			
New Mexico.....	31	T. A.	2	2	7	2	.	.	3	2	2	.	1	3	5	3	1	2	5	4	2	.	3	.	1	1	0	0	50	18	T.				
New York.....	99	T. A.	.	.	.	.	.	7	21	26	31	13	2	28	4	3	3	1	9	17	13	4	6	12	19	4	1	1	1	240	22	T.
North Carolina.....	56	T. A.	2	1	1	5	5	14	16	4	15	16	12	2	.	1	2	15	9	12	21	3	20	6	15	20	17	18	1	1	254	27	T.		
North Dakota.....	48	T. A.	.	.	1	4	4	.	2	.	.	2	2	.	2	2	5	1	.	.	.	1	1	.	3	1	4	.	35	15	T.				
Ohio.....	128	T. A.	2	2	4	25	42	31	15	34	4	.	1	1	5	.	17	3	5	1	16	.	7	30	4	.	2	24	5	3	283	24	T.		
Oklahoma.....	23	T. A.	1	.	1	.	3	.	.	.	1	.	.	2	.	4	8	6	7	4	6	9	3	1	.	.	56	14	T.						
Oregon.....	74	T. A.	4	3	2	1	.	2	9	7	16	8	1	28	28	10	4	5	1	2	1	.	1	1	.	1	1	135	21	T.					
Pennsylvania.....	91	T. A.	.	1	2	4	24	23	16	24	8	1	4	5	.	7	4	2	10	12	2	.	3	7	1	1	10	16	.	187	23	T.			
Rhode Island.....	7	T. A.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4	.	12	4	T.			
South Carolina.....	46	T. A.	17	14	4	10	6	13	8	5	12	11	12	1	.	.	9	15	17	11	11	15	7	4	12	16	9	6	3	248	25	T.			
South Dakota.....	56	T. A.	1	2	1	5	3	7	4	11	2	.	.	.	3	2	.	3	15	13	2	7	.	14	9	5	.	5	21	22	T.				
Tennessee.....	56	T. A.	19	8	2	6	8	6	1	1	15	10	3	.	.	.	1	4	.	6	14	10	16	1	.	6	2	13	4	156	22	T.			
Texas.....	95	T. A.	1	6	1	3	.	9	10	13	11	4	.	1	4	2	.	1	1	7	15	10	20	3	14	20	18	13	1	3	191	25	T.		
Utah.....	47	T. A.	10	11	9	8	4	11	14	6	14	13	20	5	8	12	6	1	.	.	3	5	.	1	1	.	1	1	155	19	T.				
Vermont.....	16	T. A.	.	.	.	.	.	3	1	4	8	7	2	1	.	.	.	3	5	.	.	.	3	.	.	2	1	.	40	12	T.	
Virginia.....	50	T. A.	.	.	1	6	7	11	11	8	17	1	3	.	.	.	13	7	22	5	10	2	10	4	3	12	17	1	2	173	22	T.			
Washington.....	64	T. A.	10	6	1	3	.	9	10	13	11	4	.	1	4	2	.	1	1	7	1	1	4	11	.	1	1	1	1	118	15	T.			
West Virginia.....	43	T. A.	1	.	1	1	8	13	16	3	5	8	1	2	.	3	.	2	1	15	1	7	1	1	4	11	.	103	19	T.					
Wisconsin.....	60	T. A.	2	2	.	2	1	1	5	2	3	1	1	1	3	7	.	11	5	.	11	1	1	1	2	5	26	.	93	21	T.				
Wyoming.....	31	T. A.	3	7	6	4	5	3	1	.	1	3	4	7	4	6	.	3	1	9	2	8	1	.	4	7	.	89	21	T.					
Sums.....	2893	T. A.	187	153	121	195	219	243	293	359	316	201	185	88	101	153	121	149	135	215	295	307	289	238	140	201	227	161	125	141	174	223	6045	T.	

TABLE V.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during June, 1903, at all stations furnished with self-registering gages.

Stations.	Date.	Total duration.		Total amount of precipita- tion.	Excessive rate.		Amount before excessive begin- gan.	Depths of precipitation (in inches) during periods of time indicated.														
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.	
Albany, N. Y.....	1 30	2 4:03 p. m.	3 4:36 p. m.	4 0.73	5 4:13 p. m.	6 4:30 p. m.	7 T.	0.26	0.62	0.71	0.73	.....	.....	.....	.....	.....	.....	.....	.....	0.18	.....
Alpena, Mich.....	13-14	1 0.06	.....	0.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.59	.....	
Asheville, N. C.....	27	.....	.....	2.32	3 2:32 p. m.	3 3:25 p. m.	3 3:50 p. m.	1.47	0.05	0.15	0.29	0.55	0.70	.....	.....	.....	.....	.....	.....	0.42	.....
Atlanta, Ga.....	4	D. N.	5:50 p. m.	1.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Atlantic City, N. J.....	8	.....	.....	2.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.29	.....	
Augusta, Ga.....	11	4:40 p. m.	5:50 p. m.	0.96	4:47 p. m.	5:00 p. m.	T.	0.34	0.74	0.87	0.90	0.91	.....	.....	.....	.....	.....	.....	.....	0.23	.....
Baltimore, Md.....	8	3:03 p. m.	3:45 p. m.	0.73	3:18 p. m.	3:35 p. m.	T.	0.32	0.54	0.70	0.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Binghamton, N. Y.....	11-12	.....	.....	0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.29	.....
Bismarck, N. Dak.....	30	.....	.....	0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.14	.....
Block Island, R. I.....	11-12	10:24 p. m.	10:40 a. m.	1.52	9:10 a. m.	9:45 a. m.	0.21	0.05	0.10	0.22	0.35	0.46	0.58	0.66	0.68	.....	.....	.....	.....	.....	.....
Boise, Idaho.....	4	.....	.....	0.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.14	.....
Boston, Mass.....	20-21	5:30 p. m.	2:51 p. m.	3.25	3:25 p. m.	3:50 p. m.	1.29	0.08	0.22	0.38	0.46	0.51	0.54	0.56	.....	.....	.....	.....	.....	.....	.....
Buffalo, N. Y.....	20	12:47 p. m.	7:15 p. m.	1.02	12:47 p. m.	1:02 p. m.	0.00	0.20	0.40	0.74	0.75	.....	.....	.....	.....	.....	.....	.....	.....	0.18	.....
Cairo, Ill.....	21	9:45 p. m.	11:30 p. m.	0.80	9:54 p. m.	10:30 p. m.	T.	0.18	0.42	0.55	0.61	0.68	0.72	0.75	0.78	.....	.....	.....	.....	0.59	.....
Charleston, S. C.....	18	12:52 p. m.	2:08 p. m.	0.83	1:05 p. m.	1:45 p. m.	0.04	0.20	0.37	0.51	0.56	0.59	0.64	0.67	0.73	0.77	0.42
Charlotte, N. C.....	20	5:35 p. m.	8:15 p. m.	1.13	7:23 p. m.	8:00 p. m.	0.13	0.16	0.48	0.75	0.78	0.80	0.82	0.95	0.99	.....	.....	.....	.....	0.29	.....
Do.....	22	11:38 a. m.	12:50 p. m.	0.88	11:38 a. m.	12:15 p. m.	0.00	0.18	0.37	0.56	0.61	0.67	0.73	0.78	0.80	0.83	0.23
Chattanooga, Tenn.....	27	1:08 p. m.	3:00 p. m.	0.59	1:32 p. m.	1:45 p. m.	0.01	0.23	0.45	0.58	0.55	.....	.....	.....	.....	.....	.....	.....	.....	0.17	.....
Chicago, Ill.....	22	.....	.....	0.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.17	.....
Cincinnati, Ohio.....	4-5	8:03 p. m.	D. N.	1.72	2:41 a. m.	3:05 a. m.	1.01	0.14	0.30	0.46	0.60	0.68	0.70	.....	.....	.....	.....	.....	.....	0.40	.....
Cleveland, Ohio.....	1	.....	.....	0.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.56	.....
Columbia, Mo.....	18	.....	.....	0.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.70	.....
Columbia, S. C.....	1-2	7:02 p. m.	D. N.	3.12	7:35 p. m.	8:10 p. m.	0.05	0.09	0.21	0.34	0.38	0.76	1.18	1.48	1.53	1.58	1.64	1.68	.....	.....	.....
Do.....	6	3:50 a. m.	7:24 a. m.	1.95	3:55 a. m.	4:25 a. m.	T.	0.12	0.45	0.72	0.87	0.92	0.96	0.99	.....	.....	.....	.....	.....	0.70	.....
Columbus, Ohio.....	20	8:42 p. m.	10:36 p. m.	0.84	9:27 p. m.	9:20 p. m.	T.	0.17	0.47	0.74	1.01	1.23	1.27	.....	.....	.....	.....	.....	.....	0.74	.....
Corpus Christi, Tex.....	12-13	8:23 p. m.	11:30 a. m.	4.49	7:45 a. m.	8:25 a. m.	1.61	0.05	0.10	0.24	0.35	0.48	0.57	0.66	0.82	0.95	1.08	.....	.....	0.42	.....
Davenport, Iowa.....	1	.....	.....	0.87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.74	.....
Denver, Colo.....	5	.....	.....	0.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.55	.....
Des Moines, Iowa.....	18	1:47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.30	.....
Detroit, Mich.....	6	4:05 p. m.	6:10 p. m.	2.93	4:25 p. m.	5:35 p. m.	0.16	0.05	0.42	0.71	0.99	1.25	1.47	1.61	1.69	1.77	2.15	2.35	2.64	0.49	.....
Dodge, Kans.....	20-21	.....	.....	0.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.55	.....
Dubuque, Iowa.....	30	.....	.....	0.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.30	.....
Duluth, Minn.....	27	.....	.....	0.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.17	.....
Eastport, Me.....	25	.....	.....	0.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.36	.....
Elking, W. Va.....	27	.....	.....	0.47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.60	.....
Erie, Pa.....	7	.....	.....	0.89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.47	.....
Escanaba, Mich.....	30	.....	.....	0.71	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.54	.....
Evansville, Ind.....	28	5:51 p. m.	7:42 p. m.	0.72	6:45 p. m.	7:05 p. m.	0.01	0.07	0.37	0.62	0.68	0.69	.....	.....	.....	.....	.....	.....	.....	0.25	.....
Fort Smith, Ark.....	26	.....	.....	0.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.49	.....
Fort Worth, Tex.....	9-10	7:50 p. m.	2:00 a. m.	0.96	8:33 p. m.	8:50 p. m.	0.14	0.19	0.36	0.55	0.60	0.64	0.66	.....	.....	.....	.....	.....	.....	0.54	.....
Do.....	20	9:40 p. m.	11:50 p. m.	0.74	10:22 p. m.	10:43 p. m.	0.03	0.07	0.26	0.40	0.56	0.61	0.65	0.68	.....	.....	.....	.....	.....	0.50	.....
Do.....	24	10:00 p. m.	11:35 p. m.	1.38	10:25 p. m.	11:00 p. m.	0.01	0.21	0.45	0.63	0.94	1.13	1.23	1.29	1.32	1.37	1.42	1.47	1.52	1.57	1.62	0.49
Galveston, Tex.....	26	6:55 a. m.	9:05 a. m.	0.99	7:10 a. m.	7:50 a. m.	0.05	0.26	0.43	0.51	0.66	0.70	0.72	0.81	0.89	0.90	0.99	1.00	1.04	1.08	1.12	
Do.....	27	2:50 p. m.	3:45 p. m.	0.77	2:56 p. m.	3:15 p. m.	T.	0.25	0.47	0.65	0.69	0.70	0.74	0.77	0.80	0.83	0.87	0.90	0.94	0.98	0.99	
Grand Junction, Colo.....	12-13	.....	.....	0.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.54	.....
Green Bay, Wis.....	30	.....	.....	0.33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.25	.....
Harrisburg, Pa.....	28-29	.....	.....	1.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.49	.....
Hatteras, N. C.....	11	3:30 a. m.	7:30 a. m.	1.15	4:12 a. m.	4:54 a. m.	0.04	0.10	0.14	0.19	0.23	0.33	0.46	0.62	0.83	0.87	0.90	0.94	0.98	1.02	1.06	
Huron, S. Dak.....	18	6:10 p. m.	7:41 p. m.	0.82	6:43 p. m.	6:54 p. m.	0.09	0.44	0.65	0.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.37	.....
Indianapolis, Ind.....	1-2	.....	.....	1.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.39	.....
Jacksonville, Fla.....	6	4:16 p. m.	5:40 p. m.	0.85	4:18 p. m.	4:35 p. m.	T.	0.17	0.53	0.75	0.77	0.79	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94		
Do.....	18	3:33 p. m.	4:55 p. m.	1.02	3:43 p. m.	4:12 p. m.	T.	0.10	0.21	0.50	0.78	0.92	1.01	1.04	1.07	1.10	1.13	1.16	1.19	1.22	1.25	
Jupiter, Fla.....	21	10:55 a. m.	1:45 p. m.	1.51	12:47 p. m.	1:35 p. m.	0.54	0.11	0.19	0.31	0.57	0.72	0.77	0.85	0.93	0.97	1.00	1.03	1.06	1.09	1.12	
Kalispell, Mont.....	2-3	.....	.....	0.59	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.25	.....
Kansas City, Mo.....	21	7:16 a. m.	9:05 a. m.	0.84	7:53 a. m.	8:12 a. m.	0.02	0.16	0.48	0.74	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	
Key West, Fla.....	15	6:35 p. m.	9:40 p. m.	1.80	6:40 p. m.	7:20 p. m.	0.01	0.23	0.45	0.61	0.80	0.90	0.99	1.03	1.07	1.11	1.15	1.19	1.23	1.27	1.31	
Knoxville, Tenn.....	6	D. N.	9:10 a. m.	0.96	6:07 a. m.	6:52 a. m.	0.03	0.10														

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TABLE V.—Accumulated amounts of precipitation for each 5 minutes, etc.—Continued.

Stations.	Date,	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Sacramento, Cal.	1 29	2 3:28 p.m.	3 9:05 a.m.	4 T.	0.96	3:34 p.m. 9:31 a.m.	4:00 p.m. 10:30 a.m.	T. 0.02	0.26 0.04	0.40 0.04	0.60 0.18	0.68 0.45	0.74 0.64	0.76 0.69	0.71 0.71	0.74 0.74	0.79 0.79	0.82 0.82	0.91 0.91		
St. Louis, Mo	1 22	1 9:05 a.m.	2 10:55 a.m.	3 T.	0.93																0.31
St. Paul, Minn.	30				0.49																
Salt Lake City, Utah	9				0.53																0.53
San Antonio, Tex.	25-26	11:25 p.m.	4:00 a.m.	1.12	3:17 a.m.	3:42 a.m.	0.02	0.33	0.64	0.83	0.99	1.09	1.10								
San Diego, Cal.	28				T.																
Sandusky, Ohio	1				1.11																0.52
San Francisco, Cal.	11				T.																
Savannah, Ga.	4	8:54 a.m.	1:35 p.m.	0.77	8:57 a.m.	9:15 a.m.	T. 0.14	0.40 0.60	0.67 0.67	0.68 0.73											
Do.	8	2:20 p.m.	4:25 p.m.	1.10	2:32 p.m. 9:00 p.m.	2:55 p.m. 9:00 p.m.	0.03 0.12	0.25 0.28	0.42 0.50	0.67 0.62	0.73 0.66										
Do.	11	3:28 p.m.	11:20 p.m.	0.99	8:28 p.m.	9:00 p.m.	0.00	0.15	0.35	0.41	0.44	0.48	0.60	0.64	0.67						0.53
Scranton, Pa.	11-12			3.04																	0.36
Seattle, Wash.	24				0.29																0.15
Shreveport, La.	8				0.45																0.42
Spokane, Wash.	1-2				0.67																0.53
Springfield, Ill.	21				0.90																0.59
Springfield, Mo.	2-3				1.06																0.41
Tampa, Fla.	7	5:50 p.m.	8:15 p.m.	2.02	5:54 p.m.	6:45 p.m.	T. 0.21	0.51 0.59	0.64 0.67	0.67 0.83	1.36 1.36	1.70 1.70	1.79 1.79	1.86 1.86	1.90 1.90						
Do.	8-9	11:15 p.m.	12:40 a.m.	0.70	11:33 p.m.	11:55 p.m.	T. 0.07	0.27 0.42	0.55 0.58	0.62 0.62											0.29
Taylor, Tex.	22				0.31																
Toledo, Ohio	6	3:20 p.m.	10:00 p.m.	1.20	3:30 p.m.	3:45 p.m.	0.12	0.38	0.54	0.62	0.65	0.66									
Topeka, Kan.	24-25	11:25 p.m.	3:15 p.m.	2.52	12:02 a.m.	12:45 a.m.	0.06	0.24	0.59	0.92	1.17	1.38	1.52	1.64	1.74	1.80	1.81				
Valentine, Nebr.	23	5:30 p.m.	6:05 p.m.	0.46	5:37 p.m.	5:50 p.m.	T. 0.10	0.35	0.42	0.45	0.46										
Vicksburg, Miss.	24	3:08 p.m.	4:50 p.m.	0.89	3:14 p.m.	3:32 p.m.	T. 0.44	0.67	0.79	0.84											
Washington, D. C.	21	8:30 p.m.	10:00 p.m.	0.89	9:00 p.m.	9:40 p.m.	0.07	0.08	0.23	0.30	0.46	0.60	0.67	0.73	0.81						0.43
Wichita, Kans.	21			0.44																	
Wilmington, N. C.	7	3:20 a.m.	9:05 a.m.	3.78	7:15 a.m.	8:05 a.m.	0.91	0.07	0.17	0.34	0.43	0.54	0.68	0.80	1.02	1.20	1.48				
Do.	25	1:57 p.m.	2:33 p.m.	1.68	8:05 a.m.	8:45 a.m.	1.75	1.89	2.10	2.19	2.30	2.52	2.70	2.83	2.86						
Wytheville, Va.	27	5:29 p.m.	11:10 p.m.	1.60	2:25 p.m.	2:25 p.m.	T. 0.26	0.61	0.88	1.24	1.28	1.31									
Yankton, S. Dak.	19			0.67	7:10 p.m.	8:01 p.m.	0.01	0.12	0.33	0.49	0.77	1.07	1.17	1.22	1.25		*				
Bridgetown, Barbados	29-30	6:25 p.m.	4:45 a.m.	4.03	8:26 p.m.	8:55 p.m.	0.67	0.17	0.30	0.36	0.73	0.93	1.08								
Havana, Cuba	16	11:50 a.m.	12:19 p.m.	0.61	11:52 a.m.	12:17 p.m.	T. 0.07	0.12	0.25	0.49	0.60										
Do.	16	12:57 p.m.	2:20 p.m.	1.50	1:05 p.m.	1:55 p.m.	0.04	0.08	0.13	0.17	0.33	0.58	0.89	1.12	1.28	1.38	1.45				
San Juan, Porto Rico	8	8:33 p.m.	9:20 p.m.	0.56	8:33 p.m.	8:55 p.m.	0.00	0.14	0.35	0.48	0.53										

*Self-register not working.

TABLE VI.—Data furnished by the Canadian Meteorological Service, June, 1903.

Stations.	Pressure, in inches.				Temperature.				Precipitation.				Stations.	Pressure, in inches.				Temperature.				Precipitation.
	Actual, reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean.	Actual, reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean maximum.	Total.	Actual, reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean.	Actual, reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean maximum.	Total.	Departure from normal.	Depth of snow.		
St. Johns, N. F.	In. 29.87	In. 30.01	In. +10	44.4	— 7.2	51.5	1.84	-1.76	In. 29.8	In. 29.92	In. -0.04	60.1	— 1.6	70.3	49.8	— 2.57	+0.15					
Sydney, C. B. I.	30.06	30.10	+15	50.2	— 5.2	59.6	40.8	1.38	-1.85	30.01	+.07	56.9	+ 0.5	67.2	46.6	1.60	-1.13					
Halifax, N. S.	29.95	30.06	+11	53.6	— 4.1	61.6	45.5	3.49	-0.27	29.18	+0.1	+12	61.5	- 0.7	75.4	47.6	0.49	-2.80				
Grand Manan, N. B.	29.93	29.98	+0.5	54.0	— 2.2	60.1	47.9	2.01	-0.93	28.23	+0.2	+13	60.5	+ 0.9	73.1	47.8	1.03	-1.97				
Yarmouth, N. S.	29.94	30.01	+0.6	55.3	— 0.3	62.7	47.9	6.68	+3.92	27.75	+0.8	+11	59.7	- 0.2	72.9	46.4	1.46	-1.96				
Charlottetown, P. E. I.	30.01	30.05	+13	55.6	— 1.8	64.9	46.4	2.24	-0.43	27.69	+0.9	+18	64.0	+ 2.0	78.2	49.8	T.	-2.76				
Chatham, N. B.	29.99	30.01	+12	57.2	— 2.8	67.7	46.7	2.52	-0.94	27.45	+0.9	+12	61.7	+ 1.7	74.8	48.7	2.26	-0.41				
Father Point, Que.	29.96	29.98	+11	49.4	— 3.6	56.2	42.5	2.29	-0.69	26.44	+0.2	+8	57.9	+ 1.7	71.9	43.9	2.05	-0.30				
Quebec, Que.	29.65	29.71	+0.5	59.3	— 1.9	67.6	51.1	3.51	-0.14	25.41	+0.9	+12	56.0	+ 4.5	70.3	41.7	1.90	-1.43				
Montreal, Que.	29.73	29.93	-0.1	63.3	— 1.6	71.7	55.0	4.76	+1.23	27.66	+0.8	+8	60.3	+ 3.4	73.2	47.4	4.94	+2.08				
Bisnett, Ont.	29.34	29.94	.00	59.6	— 2.0	73.1	46.1	3.98	+0.82	28.41	+0.5	+8	59.8	+ 2.1	73.1	46.4	1.07	-1.44				
Ottawa, Ont.	29.60	29.92	-0.2	62.8	— 2.5	73.1	52.6	6.55	+3.63	28.26	+0.8	+12	61.8	+ 2.3	75.0	48.5	2.00	-1.31				
Kingston, Ont.	29.60	29.91	-0.6	61.6	— 1.8	69.7	53.5	6.16	+3.73	28.67	+0.8	+16	68.6	+ 4.8	81.7	55.5	0.61	-0.81				
Toronto, Ont.	29.54	29.91	-0.6	61.8	— 1.6	71.1	52.5	3.25	+0.45	29.92	+0.1	+12	59.0	+ 2.7	66.6	51.4	0.67	-0.53				
White River, Ont.	28.70	30.00	+0.6	55.7	— 3.0	71.6	39.8	1.63	-0.59	25.72	+0.9	+12	54.9	+ 4.2	68.3	41.5	3.58	+0.10				
Port Stanley, Ont.	29.30	29.94	-0.3	60.6	— 3.2	69.7	51.5	3.42	+0.69	29.89	+0.3	+7	73.0	- 2.0	78.2	67.8	3.33	-2.12				
Saugeen, Ont.	29.24	29.94	-0.3	57.4	— 3.0	66.4	48.4	2.03	-0.32	28.69			58.8		71.5	46.1	0.50					

TABLE VII.—Heights of rivers referred to zeros of gages, June, 1903.

Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.	Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.
			Height.	Date.	Height.	Date.											

TABLE VII.—Heights of rivers referred to zeros of gages—Continued.

Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage. Monthly range.	Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage. Monthly range.	
			Height.	Date.	Height.	Date.					Height.	Date.	Height.	Date.		
			Feet.		Feet.		Feet.				Feet.		Feet.		Feet.	
<i>James River.</i>																
Lamoure, N. Dak.	Miles.	Feet.	25	—0.1	20-30	1	—0.5	1-6	—0.3	0.4	23	1,3	5.6	26	11,3	14.7
Huron, S. Dak.	210	9	2.8		0.9	29	1.8	1.9			403	22	6.3	21,22	12.7	17.7
<i>Missouri River.</i>											256	21	7.0	23,25,26	13.4	16.2
Townsend, Mont.	2,504	10	7.9	8-10	4.9	30	6.9	3.0			176	23	24.8	3	8.6	15.7
Fort Benton, Mont.	2,285	12	6.3	9,10	3.8	30	5.3	2.5			<i>White River.</i>					
Bismarck, N. Dak.	1,309	14	8.7	23-25	4.1	4	7.2	4.6			Newport, Ark.	150	26	25.6	6,7	6.0
Pierre, S. Dak.	1,114	14	9.2	25	5.2	7,8	7.4	4.0			Yazoo River.	80	25	17.1	27-30	6.5
Sioux City, Iowa	784	19	12.5	28	8.7	12,13	10.7	3.8			<i>Red River.</i>					
Omaha, Nebr.	669	18	14.4	1	9.8	14	11.5	4.6			Arthur City, Tex.	638	27	12.0	1	8.0
Plattsburgh, Nebr.	641	17	11.2	1	5.8	14	7.8	5.6			Fulton, Ark.	515	28	20.1	3	8.7
St. Joseph, Mo.	431	10	15.0	2	6.8	15	9.8	8.2			Shreveport, La.	327	29	11.7	6	2.8
Kansas City, Mo.	388	21	35.0	1,2	14.6	16	20.9	20.4			Alexandria, La.	118	33	15.5	1	5.7
Glasgow, Mo.	231		26.3	5	10.4	18	15.5	15.9			<i>Ouachita River.</i>					
Boonville, Mo.	199	20	30.9	6	14.2	27	19.7	16.7			Camden, Ark.	304	39	20.7	3	6.3
Hermann, Mo.	103	24	29.5	6	14.0	19	19.8	15.5			Monroe, La.	122	40	28.6	1	10.7
<i>Chippewa River.</i>											<i>Atchafalaya River.</i>					
Chippewa Falls, Wis.	90	16	8.0	1,2	—1.0	28	2.8	9.0			Melville, La.	100	31	32.0	26-30	30.7
<i>Illinois River.</i>											<i>Susquehanna River.</i>					
Peoria, Ill.	135	14	13.0	9-11	9.9	30	11.7	3.1			Binghamton, N. Y.	306	16	6.2	13	2.6
<i>Youghiogheny River.</i>											Towanda, Pa.	262	16	6.5	26	4-11
Confluence, Pa.	59	10	5.0	30	0.8	5,6	2.2	4.2			Wilkesbarre, Pa.	183	17	11.0	26	2.9
West Newton, Pa.	15	23	7.3	30	0.6	7	2.3	6.7			Harrisburg, Pa.	69	17	7.2	27	0.9
<i>Allegheny River.</i>											<i>West Branch Susquehanna.</i>					
Warren, Pa.	177	14	2.5	25	0.2	13	0.9	2.3			Lockhaven, Pa.	65	12	2.6	26	—1.4
Oil City, Pa.	123	13	4.8	24	0.7	5-10	1.6	4.1			Williamsport, Pa.	39	20	9.5	26	0.5
Parker, Pa.	73	20	6.5	24	0.8	6-8	1.9	5.7			<i>Juniata River.</i>					
Freeport, Pa.	29	20	11.8	24	1.5	5	3.9	10.3			Huntingdon, Pa.	90	24	6.0	24,30	3.2
<i>Clarion River.</i>											<i>Shenandoah River.</i>					
Clarion, Pa.	32	10	5.0	23,24	0.2	5,6,8	1.4	4.8			Riverton, Va.	58	22	10.0	10	0.4
<i>Monongahela River.</i>											<i>Polomac River.</i>					
Weston, W. Va.	161	18	3.0	10	0.2	19,20	1.4	2.8			Cumberland, Md.	290	8	5.6	29	2.8
Fairmont, W. Va.	119	25	8.0	8	1.5	5	3.2	6.5			Harpers Ferry, W. Va.	172	18	12.3	30	2.5
Greensboro, Pa.	81	18	12.0	30	7.5	7	9.1	4.5			<i>James River.</i>					
Lock No. 4, Pa.	40	28	14.5	30	6.7	7	9.4	7.8			Lynchburg, Va.	260	18	8.4	7	1.0
<i>Conemaugh River.</i>											Richmond, Va.	111	12	14.7	8	—0.4
Johnstown, Pa.	64	7	6.0	23	1.5	6,7	2.5	4.5			Danville, Va.	55	8	5.2	27	0.2
<i>Red Bank Creek.</i>											<i>Roanoke River.</i>					
Brookville, Pa.	35	8	1.6	24	—0.4	11-13	0.5	2.0			Clarksville, Va.	196	12	8.0	28	3.5
<i>Beaver River.</i>											Weldon, N. C.	129	30	25.4	9	10.2
Ellwood Junction, Pa.	10	14	4.5	30	2.4	6-9	3.0	2.1			<i>Cape Fear River.</i>					
<i>Great Kanawha River.</i>											Fayetteville, N. C.	112	38	14.0	24	3.7
Charleston, W. Va.	58	30	8.2	8	4.6	15,16	7.0	3.6			Edisto, S. C.	75	6	5.3	6,7	1.2
<i>Little Kanawha River.</i>											Cheraw, S. C.	149	27	21.2	9	3.1
Glenville, W. Va.	103	20	4.7	7	—1.0	19,20	1.5	5.7			<i>Black River.</i>					
<i>New River.</i>											Kingtree, S. C.	52	12	11.8	16	0.8
Radford, Va.	155	14	4.2	29	—0.1	3-6,9	0.6	4.3			<i>Lynch Creek.</i>					
Hinton, W. Va.	95	14	4.4	29	1.8	21-23	2.5	2.6			Effingham, S. C.	35	12	13.9	18	3.9
<i>Cheat River.</i>											<i>Santee River.</i>					
Rowlesburg, W. Va.	36	14	6.0	13,29	2.0	6,11	3.8	4.0			St. Stephens, S. C.	97	12	15.0	15	6.5
<i>Ohio River.</i>											<i>Congaree River.</i>					
Pittsburg, Pa.	966	22	9.9	24	4.6	18,28	6.3	5.3			Columbia, S. C.	37	15	27.2	9	2.3
Davis Island Dam, Pa.	960	25	10.6	25	3.0	7	6.0	7.6			<i>Wateree River.</i>					
Beaver Dam, Pa.	925	27	15.3	25	3.7	7	7.6	11.6			Camden, S. C.	45	24	28.3	8	9.0
Wheeling, W. Va.	875	36	14.7	25	3.4	9	7.1	11.3			<i>Waccamaw River.</i>					
Parkersburg, W. Va.	785	36	13.4	26	5.6	7	8.0	7.8			Conway, S. C.	40	7	3.2	27	1.8
Point Pleasant, W. Va.	703	39	13.4	27	4.6	6	7.9	8.8			<i>Savannah River.</i>					
Huntington, W. Va.	660	50	16.6	27	8.1	6	11.5	8.5			Calhoun Falls, S. C.	347	15	15.3	7	3.0
Catlettsburg, Ky.	651	50	15.9	28	6.5	6	10.4	9.4			<i>Broad River.</i>					
Portsmouth, Ohio	612	50	16.7	29	9.0	18	11.9	7.7			Carlton, Ga.	30	11	8.0	7	2.7
Cincinnati, Ohio	499	50	17.7	30	10.3	19	13.5	7.4			Albany, Ga.	80	20	12.9	9	3.1
Madison, Ind.	413	46	15.9	7	9.8	20,26	12.5	6.1			<i>Chatahoochee River.</i>					
Louisville, Ky.	367	28	8.3	2,7	5.6	21	6.9	2.7			Oakdale, Ga.	305	18	20.0	6	3.4
Evansville, Ind.	184	35	18.4	9	8.1	23,24	12.1	10.3			Westpoint, Ga.	239	20	12.0	7	3.5
Paducah, Ky.	47	40	29.4	11,12	11.3	30	21.9	18.1			<i>Ocmulgee River.</i>					
Cairo, Ill.	1,073	45	43.4	13	26.0	30	35.8	18.4			Macoa, Ga.	125	18	19.0	5	4.0
<i>Muskogee River.</i>											Abbeville, Ga.	60	11	14.8	12	4.7
Zanesville, Ohio	70	20	7.1	26	6.0	5-7,19,20	6.3	1.1			<i>Oconee River.</i>					
<i>Scioto River.</i>											Dublin, Ga.	79	20	13.1	11	2.0
Columbus, Ohio	110	17	9.0	8	2.8	1-4	4.2	6.2			<i>Coosa River.</i>					
<i>Miami River.</i>											Rome, Ga.	271	30	17.1	6	2.2
Dayton, Ohio	77	18	4.7	7	1.4	29,30	2.3	3.3			Gadsden, Ga.	144	18	14.7	8	1.8
<i>Wabash River.</i>											<i>Alabama River.</i>					
Mount Carmel, Ill.	50	15	10.6	11,12	3.0	30	6.0	7.6			Montgomery, Ala.	265	35	15.3	10	4.3
<i>Licking River.</i>											Selma, Ala.	212	35	17.0	9-11	5.9
Falmouth, Ky.	30	25	3.0	7,8	0.6	28	1.9	2.4			<i>Tombigbee River.</i>					
<i>Kentucky River.</i>											Columbus, Miss.	303	33	3.1	1	—2.0
High Bridge, Ky.	117	17	12.5	9	9.1	22,23,26,27	9.9	3.4			Demopolis, Ala.	155	35	13.0	9	2.2
Frankfort, Ky.	65	31	8.6	9	5.9	22-30	6.5	2.7			<i>Black Warrior River.</i>					
Speers Ferry, Va.	156	20	0.6	5,23	—0.5	30	0.2	1.1			Tuscaloosa, Ala.	90	43	16.8	7	6.2
Clinton, Tenn.	52	25	7.5	7	3.9	18	5.1	3.6			Brazos River.					
<i>Holston River.</i>											Kopperl, Tex.	369	21	6.0	16	0.2
Rogersville, Tenn.	103	14	2.3	8	1.6	27	2.0	0.7			Waco, Tex.	301	24	7.0	16	3.0
<i>French Broad River.</i>											Booth, Tex.	76	39	6.7	22	4.7
Asheville, N. C.	144	6	4.4	7	0.6	25	1.8	3.8			<i>Red River of the North.</i>					
Leadvale, Tenn.	70	15	5.0	7	0.3	22,29	1.6	4.7			Moorhead, Minn.	418	26	8.4	1,2	7.8
<i>Tennessee</i>																

MONTHLY WEATHER REVIEW.

JUNE, 1903

HAWAIIAN CLIMATOLOGICAL DATA.

By Mr. CURTIS J. LYONS, Territorial Meteorologist.

Meteorological Observations at Honolulu, June, 1903.

Date.	Pressure at sea level.	During twenty-four hours preceding 1 p. m. Greenwich time, or 1:30 a. m., Honolulu time.										Total rainfall at 9 a. m., local time.	
		Temperature.		Temperature.		Means.		Wind.		Sea-level pressures.			
		Dry bulb.	Wet bulb.	Maximum.	Minimum.	Dew-point.	Relative humidity.	Prevailing direction.	Force.	Average cloudiness.	Maximum.	Minimum.	
1	30.09	71	67	75	69	65.3	79	ne.	4	10	30.15	30.06	0.22
2	30.04	71	68	75	70	65.5	80	ne.	5	8	30.12	30.03	0.35
3	29.98	71	69	73	70	65.5	77	ne.	3-1	5-3	30.09	30.00	0.40
4	29.94	70	68	81	69	66.7	80	ne.	1-0	3-3	30.03	29.95	0.04
5	29.92	68	66	81	68	66.3	77	sw.	1-0	4	29.97	29.90	0.06
6	29.95	71	67.5	82	66	63.3	81	sw.	1-0	3-10	30.01	29.93	0.00
7	29.99	72	66	82	65	64.5	70	ne.	2	4-2	30.04	29.96	0.03
8	29.99	73	67.5	80	67	63.3	69	ene.	4	3	30.03	29.96	0.00
9	30.01	72	69.5	80	71	64.0	70	ene.	5	2	30.04	29.96	0.02
10	29.99	75	68.5	93	71	67.3	74	ne.	1	3	30.06	29.97	0.00
11	29.97	73	67.5	82	73	63.5	66	ne.	3	2	30.06	29.98	0.01
12	29.98	70	68	81	71	65.5	76	ne.	3	4-5	30.07	29.99	0.07
13	30.00	72	67	80	68	65.0	78	ne.	2	9-3	30.06	29.96	0.23
14	29.98	73	67.5	81	70	63.5	65	ne.	3-1	4	30.05	29.96	0.02
15	29.96	73	66	81	70	63.7	70	ne.	3-1	8-4	30.03	29.94	0.08
16	29.92	70	65.5	83	67	63.0	65	ne.	2	2	30.00	29.95	0.01
17	29.99	70	65.5	84	65	64.7	72	ne.	1-0	3-1	29.97	29.88	0.00
18	29.94	73	67	85	65	64.5	69	ne.	1-0	4-2	29.99	29.90	0.00
19	29.97	68	65.5	84	66	63.7	69	ne.	1-0	3-1	30.00	29.90	0.00
20	29.97	75	68.5	84	66	65.7	75	ne.	2-0	2	30.04	29.89	0.00
21	30.00	77	70.5	84	70	66.0	68	ne.	3-0	4-2	30.03	29.94	0.00
22	29.99	74	68	85	73	67.0	68	ne.	2-0	2-1	30.05	29.96	0.00
23	29.99	74	67.5	84	72	65.0	66	ne.	3-0	4-0	30.05	29.97	0.01
24	29.97	74	66.5	83	71	64.0	66	nue-ne.	4-1	1-5	30.01	29.94	0.00
25	30.00	75	68	83	72	63.0	63	ne.	4-2	2-6	30.04	29.95	0.02
26	29.98	77	69	84	71	64.5	66	ne.	3	4	30.03	29.95	0.00
27	30.02	76	68	85	70	65.5	66	ne.	3-4	4	30.05	26.97	0.00
28	29.97	77	68	83	74	63.7	64	ne.	5	8-3	30.07	29.96	0.00
29	29.96	77	68	83	75	63.5	61	ne.	3-5	4-6	30.03	29.95	0.00
30	30.00	76	69	83	75	67.0	65	ne.	4	4	30.05	29.97	0.00
31													
Sums.													1.57
Means.	29.982	72.9	67.6	82.0	69.7	64.9	70.5		2.3	4.0	30.041	29.954	
Departure..	- .022					- 0.1	- 0.5						

Mean temperature for the month of June, 1903, $(6 + 2 + 9) + 3 = 76.0^\circ$; normal is 76.0° . Mean pressure for the month of June, 1903, $(9 + 3) + 2 = 29.989$; normal is 30.01.

* This pressure is as recorded at 1 p. m., Greenwich time. † These temperatures are observed at 6 a. m., local, or 4:31 p. m., Greenwich time. ‡ These values are the means of $(6 + 9 + 2 + 9) + 4$. § Beaufort scale.

Maximum thermometer set at 9 p. m. and minimum at 2 p. m., local time.

GENERAL SUMMARY FOR JUNE, 1903.

Honolulu.—Temperature mean for the month, 76.0° ; normal, 76.0° ; average daily maximum, 82.0° ; average daily minimum, 69.7° ; mean daily range, 12.3° ; greatest daily range, 20° ; least daily range, 5° ; highest temperature, 85° ; lowest, 65° .

Barometer average, 29.989; normal, 30.011; highest, 30.15; lowest, 29.88; greatest 24-hour change, .08; lows passed Honolulu, 16th; highs, 1st, 2d, and 27th.

Relative humidity average, 70.5 per cent; normal, 71.0 per cent; mean dew-point, 64.9°; normal, 65°; mean absolute moisture, 6.74 grains per cubic foot; normal, 6.83 grains.

Rainfall, 1.57 inches; normal, 1.52 inches; rain record days, 15; normal, 19; greatest rainfall in one day, 0.40, on the 2d; total at Luakaha, 13.49; normal, 8.63; at Kapiolani Park, 0.39; normal, 0.36.

The artesian well water level fell during the month from 34.65 feet above mean sea level to 34.18; June 30, 1902, it stood at 33.50. The average daily mean sea level for the month was 9.78 feet, the assumed annual mean being 10.00 feet above datum. For June, 1902, it was 9.76.

Trade wind days, 28, (two of ENE.); normal, 26; average force of wind during daylight, Beaufort scale, 2.3. Average cloudiness, tenths of sky, 4.0; normal, 4.0.

Approximate percentages of district rainfall as compared with normal: Hilo, 60 per cent; Hamakua, 23; Kohala, 34; Waimea, 40; Kona, 38; Kau, 142; Puna, 73; Maui, 135; Oahu, 110; Kauai, 135. The heaviest 24-hour rainfalls for the month were at Nahiku, 3.18 on the 4th; Luakaha, 3.07, 3d, and Mountain View, Olao, 2.54, on the 9th. The heaviest monthly rainfall, Nahiku, 15.70.

MONTHLY WEATHER REVIEW.

Mean temperature table for June, 1903.

Stations.	Elevation.	Mean max.	Mean min.	Cor. av'ge.
Pepeekeo	Feet.	°	°	°
Hilo	100	78.7	69.2	73.3
Kohala	40	85.1	67.2	75.9
Waimea	521	80.4	67.2	73.1
Volcano house	2,730	74.0	60.0	66.3
Naaehu	4,000	72.0	52.8	61.7
United States Experimental Station	650	81.0	67.0	73.8
W. R. Castle	350	82.4	69.5	75.2
	50	82.6	71.1	76.1

Errata.—The heaviest monthly rainfall for May was given as being at Mountain View, Olao, 11.70 inches; a delayed report from Nahiku, Maui, gives the amount at that place 14.89 inches, which was the heaviest for May.

Kohala, dew point average, 65.5° ; humidity, 75.0. Naaehu humidity average 73.6; barometer average, 29.41; highest, 29.49; lowest, 29.35; greatest, 24-hour change, .07; trade wind days, 26

Naaehu reports light earthquake on the 9th, at 7:20 p. m. Heavy gale at Waimea, Hawaii, on the 27th.

Pepeekeo reports a fine glow in the mornings and afternoons on several occasions during the month.

Kohala reports the lowest June rain record (1.01) with one exception (1897) in twenty years.

Rainfall data for June, 1903.

Stations.	Elevation.	Amount.	Stations.	Elevation.	Amount.
HAWAII.			MAUI—Cont'd.		
HILO, e. and ne.	Feet.	Inches.	Haleakala Ranch	2,000	Inches.
Waiakai	100	4.89	Wailuku, ne.	250	0.92
Kaumana	1,250	7.11	OAHU.		
Pepeekeo	100	3.17	Punahoa (W. B.), sw.	47	1.57
Hakalau	200	3.37	Kulohukaua (Castle), sw.	50	1.27
Honohina	300	2.52	Makiki Reservoir	120	1.66
Puuhouha	1,050	4.18	U. S. Naval Station, sw.	6	1.65
Laupahoehoe	500	1.75	Kapiolani Park, sw.	10	0.39
Ookala	400	0.33	College Hills	175	2.16
KOHALA, n.			Manoa (Woodlawn Dairy), c.	285	5.97
Niuli	250	0.55	Manoa (Rhodes Gardens)	360	9.97
Kohala (Mission)	521	1.01	School street (Bishop), sw.	30	1.94
Kohala (Sugar Co.)	270		Insane Asylum, sw.		
Hawi Mill	700	0.88	Kamehameha School		
Puakea Ranch	600	0.56	Kalihi, wa.	485	7.55
Puuhuae Ranch	1,847	0.71	Nuuuanu (W. W. Hall), sw.	50	1.34
Waimea	2,720	0.88	Nuuuanu (Wylie street), sw.	250	3.01
KONA, w.			Nuuuanu (Elec. Station), sw.	405	
Holualoa	1,350	3.46	Nuuuanu (Luakaha), c.	850	13.49
Kauhakolu Leheula	3,500	1.35	U. S. Experiment Station	350	2.17
Kainaliu	1,470	1.32	Laniakae (Nuuuanu)	1,150	6.72
Kealakekua	1,580	2.29	Tantalus Heights	1,360	8.64
Napoopo	25	1.20	Waimanalo, ne.	25	1.56
Hoopuloa	1,650	3.78	Maunawili, ne.	300	6.91
Hoopuloa	2,500	4.43	Kaneohe	100	2.92
Huehue	2,000	1.70	Ahuimanu, ne.	350	3.59
KAUAI.			Kahu, n.	25	0.66
Kuhio Ranch	1,680	1.60	Lihue (Grove Farm), e.	200	3.84
Houapoo	15	0.70	Lihue (Molokoa), e.	300	3.66
Naaehu	650	0.99	Lihue (Kukaua), e.	1,000	9.25
Hileia	310	0.80	Kealia, e.	15	
Pahala	850		Kilauea, ne.	325	2.11
Moaula	1,700		Waipahu	200	2.20
Volcano House	4,000	3.45	Maunalua	15	1.15
PUNA, e.			Pacific Heights	700	2.57
Olaa, Mountain View (Russel)	1,690	7.25	KAUAI.		
Olaa (Plantation)	1,690	2.17	Lihue (Grove Farm), e.	200	3.84
Kapoho	110	5.70	Lihue (Molokoa), e.	300	3.66
Pahoa	600		Lihue (Kukaua), e.	1,000	9.25
MAUI.			Delayed May reports.		
Lahaina	40		Nuuuanu (Wylie Street).		
Waipapae Ranch	700		Luwai (Gov. Road).	450	5.14
Kaupo (Mokulau), s.	235		Lawai, w.	225	2.15
Kipahulu, s.	308	4.55	Lawai, e.	800	4.86
Nahiku, ne	850	12.21	Koloa	100	2.31
Nahiku	1,600	15.70			
Haiku, n.	700	3.74			
Kula (Waiakoa), n.	2,700	2.58			
Kula (Erehwon), n.	4,000				
Puuhalelei, n.	1,400	3.30			

NOTE.—The letters n, s, e, w, and c show the exposure of the station relative to the winds.